

Year Book
OF
THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS
1928

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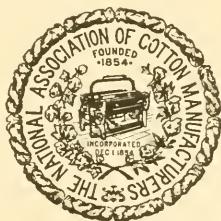


G. EDWARD BUXTON

President, 1927-28

Year Book
of
THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS

1928



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BOSTON

MASSACHUSETTS

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THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS.

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Year Book
of
**THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS**

1928

FOREWORD

The National Association of Cotton Manufacturers presents herewith its Year Book for 1928. Every effort has been made to incorporate in this publication all available data which our headquarters staff has considered of possible use to the industry. If our membership approves this endeavor, full credit must be given for the faithful supervision of our Secretary, Mr. Russell T. Fisher. Your Board of Government will be grateful for any helpful criticism or suggestions.

G. EDWARD BUXTON,
President.

PREFACE

The scope of the material presented in this, the eleventh edition of the Year Book of The National Association of Cotton Manufacturers, is essentially the same as in the last several editions. The statistical tables have been brought up to date and several new tables added on request from some of the members. The Technical Section has been enlarged to include more information that has become available.

The attention of the user of this book is called to the different periods of time for recording data. The United States and most foreign countries use the cotton year, August 1 to July 31, for figures on raw cotton, and the calendar year, January 1 to December 31, for imports and exports, although some of the earlier United States statistics are based on the fiscal year, July 1 to June 30. A note indicates the period where figures are given that do not cover the usual periods for reporting.

Suggestions for making future editions more useful will be appreciated.

RUSSELL T. FISHER,
Secretary.

CHARTER

No. 6091

Commonwealth of Massachusetts

BE IT KNOWN that whereas, EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN have associated themselves with the intention of forming a corporation under the name of the NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION, for the purpose of encouraging scientific investigation and experiment as to the methods of manufacturing cotton; collecting and imparting information relating to this industry; promoting social intercourse among its members; and establishing and maintaining a library of works on textiles in the city of Boston, and have complied with the provisions of the Statutes of this Commonwealth in such case made and provided, as appears from the certificate of the President, Treasurer and Directors of said corporation, duly approved by the Commissioner of Corporations, and recorded in this office.

Now, Therefore, I, WILLIAM M. OLIN, Secretary of the Commonwealth of Massachusetts, do hereby certify that said EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN, their associates and successors, are legally organized and established as and are hereby made an existing corporation under the name of the

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION,

with the powers, rights and privileges, and subject to the limitations, duties and restrictions which by law appertain thereto.

*Seal of the
Commonwealth
of
Massachusetts* Witness my official signature hereunto subscribed, and the seal of the Commonwealth of Massachusetts hereunto affixed this first day of December, in the year of our Lord one thousand eight hundred and ninety-four.

WILLIAM M. OLIN,
Secretary of the Commonwealth.

Commonwealth of Massachusetts

(Acts of 1895, Chap. 163.)

AN ACT TO AUTHORIZE THE NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION TO HOLD ITS MEETINGS WITHOUT THE COMMONWEALTH.

Be it enacted, etc., as follows:

SECTION 1. The New England Cotton Manufacturers' Association is hereby authorized to hold its meetings in any state or territory of the United States and in the District of Columbia; provided, however, that its annual meeting shall be held in this Commonwealth at least once in five years.

SECTION 2. This act shall take effect upon its passage. [Approved March 23, 1895.]

No. 252

Commonwealth of Massachusetts

BE IT KNOWN that whereas

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

a corporation organized under the laws of this Commonwealth and subject to the provisions of chapter one hundred and twenty-five of the Revised Laws has complied with the provisions of chapter one hundred and nine of the Revised Laws, as appears from the certified copy of the order of the Commissioner of Corporations, authorizing said corporation to change its name and adopt the name of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, and the certificate of the Vice President and Acting President, Treasurer and Directors of said corporation duly filed in this office pursuant to the provisions of section ten of the aforesaid chapter one hundred and nine of the Revised Laws.

NOW, THEREFORE, I, William M. Olin, Secretary of the Commonwealth of Massachusetts, do HEREBY CERTIFY, that the name which said corporation shall bear is

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, which shall hereafter be its legal name.

Seal of the Commonwealth of Massachusetts WITNESS my official signature hereunto subscribed, and the Great Seal of the Commonwealth of Massachusetts hereunto affixed this twenty-fifth day of June in the year of our Lord one thousand nine hundred and six.

WM. M. OLIN,
Secretary of the Commonwealth.

STATE LIBRARY

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

SUCCESSOR TO
NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

FOUNDED 1854
INCORPORATED DECEMBER 1, 1894

CONSTITUTION AND BY-LAWS (Revised, November 1, 1923)

I NAME

The name is THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS.

II QUALIFICATIONS OF MEMBERS

Active Members

1. Any person who is actively engaged as President, Treasurer, Agent, Superintendent, or Manager in the manufacture, printing, or finishing of cottons shall be eligible for active membership.

Associate Members

2. Any person engaged in the manufacture of cotton or cotton fabrics, or the manufacture of textile machinery, or industries kindred to the cotton manufacture, shall be eligible for associate membership.

3. This class of membership shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote except by permission from the Board of Government or by vote of the Association.

Sustaining Members

4. Any firm or corporation actively engaged in manufacturing, bleaching, printing, or finishing of cotton, or any firm or corporation actively engaged in a business contributory to the cotton manufacturing industry, shall be eligible for sustaining membership.

5. The executive head of a firm or corporation, so elected, or any duly authorized representative thereof, shall represent its sustaining membership in the Association.

6. Sustaining members shall enjoy the full privilege of active membership and in addition shall be entitled to such direct service as the Association may be able to render by its technical and statistical or other departments under such regulations as the Board of Government may prescribe.

Honorary Members

7. Honorary members shall be recommended by the Board of Government and may be elected at any duly called meeting of the Association. They shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote. No person actively engaged in cotton manufacture shall be eligible to such membership.

Life Members

8. Any active or associate member by the single payment of a sum equal to ten times the amount of his annual dues, shall be exempt from all future payment of dues and shall become a life member and shall have all the privileges to which his class of membership is entitled.

9. The minimum dues for a life member shall be one hundred dollars.

10. All moneys thus paid shall be invested as a permanent fund by the Treasurer, acting under the direction of the Board of Government, of which the income only shall be subject to appropriation for current expenses.

Technical Members

11. Any person over twenty-five years of age (except those designated under Article II, Sections 1 and 2) engaged in the manufacture, bleaching, printing, finishing, or distribution of cotton products; or in any industry contributory to cotton manufacture, including the manufacture and installation of cotton machinery; or who is employed in a school or college giving instruction in the manufacture of cotton goods and accessory industries; or by a technical laboratory or textile engineering organization, shall be eligible to technical membership.

Junior Technical Members

12. Any junior or senior student of a school or college giving instruction in textile manufacture, or any employee, under twenty-five years of age and not a textile school graduate, engaged in the supervision of cotton manufacture, bleaching, printing, or finishing, shall be eligible as a junior technical member. A student junior technical member upon graduation, and an employee junior technical member upon attaining his twenty-fifth birthday, shall automatically become a technical member of the Association and

shall be subject to the same conditions and receive the same privileges as other technical members.

13. It shall be the duty of all members of the Association to make returns to the Secretary of such statistics as may be called for by him, under the direction of any committee duly appointed for the collection of statistics, when not incompatible with private interests.

III

OFFICERS

1. The officers shall be a President, two Vice Presidents, fifteen Directors, a Treasurer, and a Secretary.

2. The PRESIDENT, and in his absence a VICE PRESIDENT, shall preside at all meetings of the Association and of the Board of Government.

3. The TREASURER, or a deputy whom he may appoint with the approval of the Board of Government, shall collect all moneys due the Association and disburse the same in accordance with the action of the Board of Government. He shall keep an accurate account of all receipts and expenditures and present a full account of the finances of the Association at the annual meeting in each year, or whenever called for by the Board of Government. He shall act as trustee of the permanent funds of the Association.

4. The SECRETARY shall attend all meetings of the Association and the Board of Government and keep accurate records of their doings. In the absence of the Secretary at any meeting, a Secretary pro tem may be appointed by the presiding officer, who shall be sworn to do all things, while in office, required of the Secretary.

5. Any officer who shall unreasonably absent himself from three consecutive meetings of the Board of Government of which he is a member, or shall otherwise neglect or refuse to perform the duties of his office, may be removed from office at any regular meeting of the Board of Government by a vote of a majority of the members present and voting thereon, a notice of such proposed action to be sent to him by mail at least one week previous to the meeting.

IV

BOARD OF GOVERNMENT

1. The President, Vice Presidents, and Directors, in addition to the Presidents who have held office during six years previous to the annual meeting of any year, shall constitute a BOARD OF GOVERNMENT and have under its care and direction all matters pertaining to the management of the Association.

2. Meetings of the Board may be called by the President at such time and place as he may deem expedient, giving each member a written or printed notice of the same at least five days before the day of the meeting.

3. At the first meeting of the Board after the Annual Meeting, a Treasurer, a Secretary, and an Auditor of Accounts for the year

ensuing shall be elected. The Board shall also fix the amount of the compensation of the Secretary at this meeting.

4. All vacancies in the Board, occasioned by death, resignation, or removal, shall be filled by the Board; and the persons so elected shall hold their offices until the next Annual Meeting, except as provided in Article III, Section 5.

5. At the first meeting of the Board, or as soon after as practical, the President, with its approval, shall appoint from its membership an Executive Committee of seven, which shall exercise authority in such matters as may be delegated to it by the Board. The President shall be Chairman of this Committee.

6. The President shall appoint from the general membership of the Association such other committees as in his judgment can most effectively serve its needs and interests. All committees so appointed shall report their conclusions, whenever the particular matter dealt with involves the policy of the Association or the expenditure of money, to the Board of Government.

7. The Auditor shall examine the accounts of the Treasurer annually, and report at the annual meeting his findings.

8. No committee or member thereof shall make public any matter in connection with the work of the Association without the approval of the Board of Government.

9. Seven members shall constitute a quorum for the transaction of business.

V

MEETINGS

1. The Annual Meeting of the Association shall be held the last Wednesday in October, or at such other time and at such hour and place as the Board of Government shall appoint.

2. The Board of Government shall arrange for a Semi-Annual Meeting of the Association to be held in April or at such other time and at such hour and place as the Board of Government shall appoint.

3. Special meetings shall be called by the Board of Government whenever it deems it expedient or upon written application of any fifty members to the Secretary.

4. All meetings of the members of the Association shall be in pursuance of a written or printed notice, addressed to each member, with the name of the President, or Secretary, attached thereto, and deposited in the Post Office ten days at least before the day of meeting, specifying the time and place of meeting; and at all such meetings twenty-five members shall constitute a quorum for the transaction of business.

VI

ELECTIONS

1. At each Annual Meeting there shall be chosen by ballot, a President, a first Vice President, a second Vice President, and five Directors; the President and Vice Presidents to serve one year and

the five Directors for terms of three years unless sooner removed, as hereinbefore provided.

2. No Director, elected as such, who has to his credit six years of consecutive service, shall be eligible for re-election until one year after the completion of such service.

3. The officers shall hold their respective offices until their successors shall be chosen and accept their positions.

VII

ELECTION OF MEMBERS

All nominations for membership of any class in the Association shall be made in writing and presented to the Board of Government for action thereon. Upon favorable action by the Board of Government the nominee shall become a member upon the payment, within thirty days, of the initiation fee and dues of his class.

VIII

ENTRANCE FEES, DUES AND ASSESSMENTS

1. The admission fee for active members shall be ten dollars and the payment of annual dues not exceeding ten dollars.

2. The admission fee for associate members shall be twenty-five dollars and the annual assessment shall be double the sum annually voted for active members.

3. The annual assessment for sustaining members shall be at the rate of twenty-five cents for each one thousand dollars of yearly payroll paid by such firm or corporation during the previous year in all its departments actively engaged in the manufacture of cotton goods or in contributory industries; provided that no annual assessment shall be less than fifty or more than five hundred dollars. There shall be no initiation fee for sustaining members.

4. Honorary members shall not be subject to payment of admission fees or assessments.

5. The admission fee for technical members shall be ten dollars and the annual dues five dollars.

6. Junior technical members shall pay no admission fee and the annual dues shall be three dollars.

7. Dues in the active, associate, technical, and junior technical membership classes shall be paid in advance on the first day of January of each year. The annual assessment for sustaining members is payable in advance upon the anniversary of such membership.

8. Any member failing to pay two successive assessments shall cease to be a member at the end of six months from the date when such second assessment shall become due.

IX

RESIGNATIONS

Any member may withdraw from the Association upon payment of all arrearages, first giving notice of his intention to do so, in writing, to the Secretary, and the Board of Government may accept such resignation.

X

SUSPENSION OR EXPULSION

Any member may be suspended or expelled for cause at any duly called meeting of the Board of Government by a two-thirds vote of the members present, provided he has been notified of the charges against him and an opportunity given him to appear in his defense.

XI

NATIONAL COUNCIL OF AMERICAN COTTON MANUFACTURERS

1. The Board of Government may co-operate with the American Cotton Manufacturers' Association in matters of national scope and importance through the National Council of American Cotton Manufacturers (composed of representatives of The American Cotton Manufacturers' Association and an equal number from this Association) in such manner and to such an extent as it may from time to time determine to be for the best interests of the cotton manufacturing industry, and may delegate to the Council authority to act for this Association on such matters of national importance as may be mutually agreed upon by the Boards of Government of the constituent associations.

2. The representatives of this Association in the National Council shall be the seven following: The President of the Association (ex-officio), the last three living past presidents (ex-officiis), and three others elected by the Board of Government from the sustaining membership of the Association. At the first election under this article, the Board of Government shall elect representatives to serve one, two, and three years, respectively. Thereafter one representative shall be elected each year to serve a term of three years.

3. The Board of Government, from the moneys received as dues from sustaining members, may contribute to the National Council for the support of its work at such times and in such manner as may be deemed necessary or desirable by a majority of the Board of Government.

XII

AMENDMENTS

Amendments to the Constitution and By-Laws may be made at any duly called meeting of the Association by a two-thirds vote; provided, notice of such proposed amendment be given in writing at a previous meeting, and also notice be given to each member by the Secretary, of the pendency of such amendment, ten days at least before any such meeting.

BOARD OF GOVERNMENT

1928

PRESIDENT

G. EDWARD BUXTON . . . PROVIDENCE, R. I.

VICE PRESIDENTS

PHILIP DANA . . . WESTBROOK, ME.

ALFRED E. COLBY . . . BOSTON, MASS.

DIRECTORS

Term expires 1928

C. F. BROUGHTON . . . NEW BEDFORD, MASS.

JOHN H. HOLT . . . FALL RIVER, MASS.

CHARLES E. INCHES . . . BOSTON, MASS.

JOHN A. PERKINS . . . COHOES, N. Y.

JAMES O. THOMPSON, JR. . . NEW BEDFORD, MASS.

Term expires 1929

S. HAROLD GREENE . . . BOSTON, MASS.

ERNEST N. HOOD . . . SALEM, MASS.

W. S. PEPPERELL . . . PROVIDENCE, R. I.

FRED W. STEELE . . . BOSTON, MASS.

DEXTER STEVENS . . . ESMOND, R. I.

Term expires 1930

W. IRVING BULLARD . . . BOSTON, MASS.

JOHN L. BURTON . . . NEW BEDFORD, MASS.

B. H. BRISTOW DRAPER . . . HOPEDALE, MASS.

JOHN S. LAWRENCE . . . BOSTON, MASS.

E. KENT SWIFT . . . WHITINSVILLE, MASS.

FORMER PRESIDENTS EX-OFFICIIS

RUSSELL B. LOWE . . . FITCHBURG, MASS.

ROBERT AMORY . . . BOSTON, MASS.

MORGAN BUTLER . . . BOSTON, MASS.

WILLIAM B. MacCOLL . . . PAWTUCKET, R. I.

TREASURER

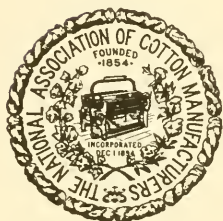
W. IRVING BULLARD . . . BOSTON, MASS.

SECRETARY

RUSSELL T. FISHER . . . BOSTON, MASS.

STATISTICAL — TECHNICAL
AND MEMBERSHIP

1928



STATISTICAL

FOREWORD

In preparing the Statistical Section of The National Association of Cotton Manufacturers Year Book for 1928, the Committee has made no radical changes. We have tried to give as complete a statistical picture of the industry as possible and at the same time avoid such detail as would injure the general utility of the Year Book.

We hope the members will find the Statistical Section useful. In view of the increasing interest in statistics, we particularly hope the Committee will receive suggestions for improving the usefulness of the Year Book.

CHARLES B. NICHOLS, *Chairman,*
Statistical Committee.

Acknowledgment of Co-operation

The preparation of the Statistical Section of this Year Book has been made possible by the generous co-operation of many governmental authorities in this country and abroad, and many firms and individuals in the cotton trade throughout the world. Special acknowledgment is due the Bureau of the Census and Bureau of Foreign and Domestic Commerce, especially, Textile Division, of the United States Department of Commerce; Weather Bureau, Bureau of Agricultural Economics, and Bureau of Entomology of the United States Department of Agriculture; Bureau of Labor Statistics and Women's Bureau of the United States Department of Labor; Egyptian Ministry of Agriculture; Egyptian Ministry of Finance; Indian Department of Statistics; British Board of Trade; New York Cotton Exchange; New Orleans Cotton Exchange; Liverpool Cotton Association; Alexandria General Produce Association; New York *Daily News Record*; *Textile World*; Comtelburo Ltd.'s Annual Cotton Hand Book; Shepperson's Cotton Facts; Merchants National Bank of Boston; International Federation of Master Cotton Spinners' and Manufacturers' Association; Japan Cotton Spinners' Association; Sanford & Kelley, New Bedford, Mass.; G. M. Haffards & Company, Fall River, Mass.; Frederick B. Macy & Company, New Bedford, Mass.; J. M. Prendergast & Co., Boston, Mass.; The Viscose Co., New York City, N. Y.; Silk Association of America, New York City, N. Y.; Garside Cotton Service, Boston, Mass.; Association of Cotton Textile Merchants of New York, New York City, N. Y., and the Cotton-Textile Institute, Inc., New York City, N. Y.

American Cotton in 1927

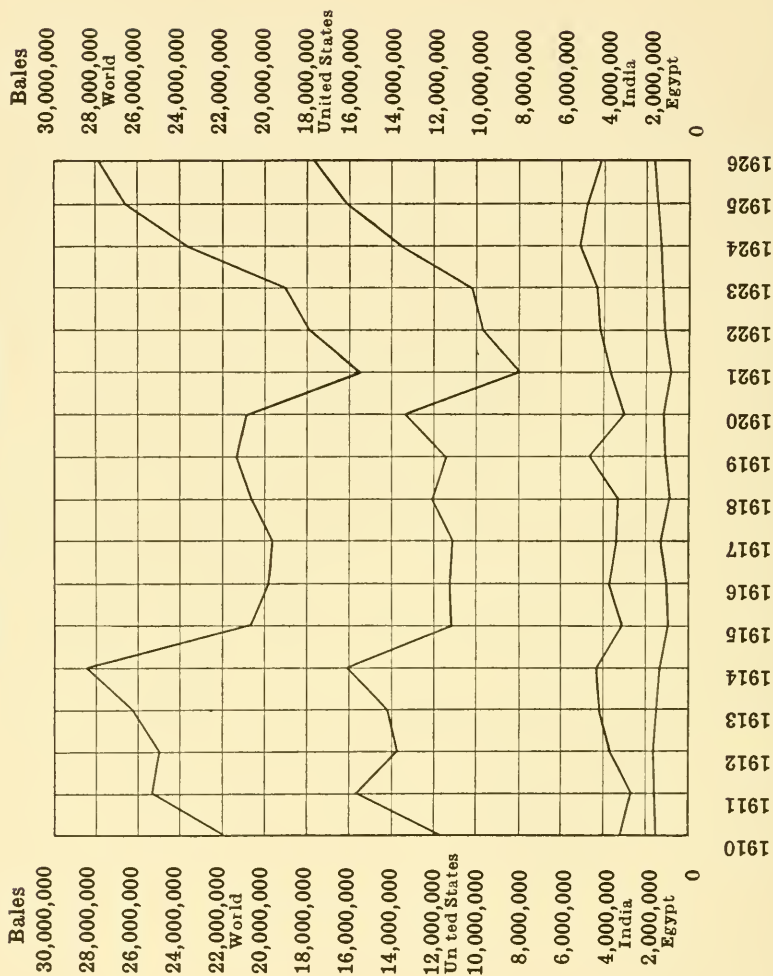
[Quantities in bales of lint cotton ¹]

	Exports	Domestic Consumption	Spindles Active, Thousands	Spindle-Hours Operated in Millions	Per Cent of Single-shift Capacity	RANGE OF SPOT COTTON PRICES	
						Low	High
January .	1,115,792	604,584	32,634	8,558	102.3	12.80	13.70
February .	1,010,507	590,447	32,872	8,266	106.8	13.65	14.50
March .	1,129,537	694,193	32,919	9,629	109.7	14.00	14.85
April .	855,449	619,140	32,892	8,805	105.8	14.30	15.35
May .	628,132	633,024	32,907	9,002	109.0	15.45	17.05
June .	481,943	662,630	32,753	9,192	109.2	16.35	17.10
July .	389,358	569,250	32,312	8,043	99.1	17.05	18.95
August .	340,311	633,434	32,239	8,973	103.5	17.00	23.25
September	631,041	627,321	32,343	8,761	107.0	20.55	23.90
October .	1,126,509	612,935	32,498	8,705	105.3	19.90	21.80
November	999,501	625,680	32,269	8,680	107.2	19.30	21.30
December .	767,314	543,598	31,715	7,859	94.3	18.60	20.15
<i>Year.</i>	9,475,394	7,416,236	—	—	—	12.80	23.90
1926 .	9,048,312	6,683,949	32,350 ²	8,082 ²	95.4 ²	12.15	21.25
1925 .	8,526,864	6,422,748	32,621 ²	7,841 ²	92.7 ²	19.15	26.05
1924 .	6,794,786	5,521,662	31,109 ²	6,696 ²	78.3 ²	22.15	35.30

¹ Except exports, which include linters.

² Monthly average.

World Cotton Production



The above chart is based on the table on the following page.

World Production of Cotton

[In bales of 478 pounds net]

Source: United States Department of Agriculture

Year	United States ¹	India	Russia	Egypt	China	Brazil	Mexico	Peru	All Other Countries	Total
1910	11,609,000	3,254,000 ²	1,006,000	1,555,000	3,467,000 ⁴	297,000 ⁵	200,000	88,000	439,000	21,915,000
1911	15,693,000	2,730,000 ²	969,000	1,530,000	3,437,000 ⁴	300,000 ⁵	160,000	96,000	441,000	25,356,000
1912	13,703,000	3,702,000 ²	946,000	1,554,000	3,931,000 ⁴	348,000 ⁵	240,000	112,000	507,000	25,043,000
1913	14,156,000	4,239,000 ²	1,026,000	1,588,000	4,000,000 ⁴	397,000 ⁵	205,000	133,000	515,000	26,259,000
1914	16,135,000	4,359,000 ²	1,270,000	1,337,000	4,500,000	387,000 ⁵	108,000	129,000	462,000	28,687,000
1915	11,192,000	3,128,000 ²	1,512,000	989,000	3,000,000 ⁴	282,000	95,000	113,000	378,000	20,689,000
1916	11,450,000	3,759,000 ²	1,199,000	1,048,000	1,534,000	281,000	103,000	127,000	344,000	19,845,000
1917	11,302,000	3,393,000 ²	634,000	1,304,000	2,092,000	315,000	135,000	125,000	345,000	19,675,000
1918	12,041,000	3,328,000 ²	161,000	999,000	3,053,000	339,000	203,000	142,000	347,000	20,613,000
1919	11,421,000	4,853,000 ²	81,000	1,155,000	2,599,000	506,000	199,000	155,000	415,000	21,384,000
1920	13,440,000	3,013,000 ²	58,000	1,251,000	1,883,000	370,000	188,000	164,000	508,000	20,875,000
1921	7,954,000	3,748,000 ²	43,000	902,000	1,517,000	505,000	147,000	157,000	357,000	15,330,000
1922	9,729,000	4,220,000 ³	55,000	1,229,000	1,360,000 ³	535,000	178,000	190,000	430,000	17,926,000
1923	10,171,000	4,400,000 ³	260,000	1,289,000	1,420,000 ³	575,000	138,000	201,000	582,000	19,036,000
1924	13,639,000	5,100,000 ³	453,000	1,450,000	1,320,000 ³	605,000	280,000	200,000	789,000	23,836,000
1925	16,123,000	4,845,000 ³	737,000	1,610,000	1,400,000 ³	602,000	202,000	185,000	962,000	26,666,000
1926	17,755,000	4,230,000 ³	738,000	1,695,000	1,335,000 ³	449,000	396,000	245,000	970,000	27,813,000

¹ Running bales from 1922 to date.

² Total Indian production.

³ Consists of cotton exported and cotton consumed in spinning mills.

⁴ Estimates which include production in the most important provinces where the commercial crop is grown.

⁵ Unofficial.

World Cotton Production and Consumption

[In bales of 478 pounds lint]

Source: United States Department of Commerce

Year	World Production (Bales)	Consumption			Per Cent of World Total Consumed by—		
		World (Bales)	European (Bales)	United States (Bales)	Europe	United States	Other Countries
1909-10	16,988,000	19,164,000	10,295,000	4,530,000	54	24	22
1910-11	18,856,000	19,888,000	11,040,000	4,408,000	56	22	22
1911-12	22,247,000	21,534,000	11,998,000	5,026,000	56	23	21
1912-13	21,550,000	22,055,000	12,158,000	5,575,000	55	25	20
1913-14	22,612,000	22,198,000	12,029,000	5,465,000	54	25	21
1914-15	24,861,000	20,670,000	10,606,000	5,485,000	51	26	23
1915-16	18,461,000	21,978,000	10,878,000	6,270,000	50	28	22
1916-17	18,924,000	21,108,000	9,044,000	6,653,000	43	32	25
1917-18	18,141,000	18,515,000	6,621,000	6,435,000	36	35	29
1918-19	18,765,000	16,704,000	5,962,000	5,831,000	36	35	29
1919-20	20,220,000	19,300,000	7,700,000	6,485,000	40	34	26
1920-21	19,665,000	16,905,000	6,735,000	4,905,000	40	29	31
1921-22	15,334,000	19,990,000	7,916,000	5,910,000	39	30	31
1922-23	17,926,000	21,325,000	8,129,000	6,666,000	38	31	31
1923-24	19,036,000	19,982,000	9,363,000	5,681,000	42	28	30
1924-25	23,836,000	22,642,000	9,689,000	6,191,000	43	30	27
1925-26	26,666,000	23,949,000	10,031,000	6,456,000	42	31	27
1926-27	27,813,000	25,869,000	10,884,000	7,190,000	42	30	28

Source of Supply of Cotton according to Length of Staple

[Bales of 500 pounds; gross weight]

Source: British Cotton Growing Committee and United States Bureau of Markets

GROWTHS	Kind	Where Grown	Length of Staple (Inches)	Approximate Pre-war Supply (Bales)
I	Sea Island	Islands, South Carolina	1½-2¼	8,000
	Sea Island	West Indies	1½-2¼	4,000
	Sea Island	Islands, Florida and Georgia	1½-1¾	70,000
II	Sea Island	West Indies	1½-1¾	2,000
	Egyptian	Egypt	1½-1¾	550,000
	Egyptian	Egypt	1-1¾	700,000
III	Egyptian	Sudan	1-1¾	20,000
	American	Mississippi Delta, etc.	1½-1¾	200,000
	African	Nyasaland, Uganda, and East and South Africa	1½-1¾	40,000
	Peruvian	Peru	1-1½	125,000
	American ¹	United States	7-1¾	15,000,000
	Mexican	Mexico	7-1½	150,000
IV	Brazilian	Brazil	3-1¾	300,000
	Russian	Russia	1-1¾	500,000
	West African	West Africa	1-1¾	15,000
	Levant	Levant	3-1½	100,000
	Indian	India	1-1¾	400,000
	Chinese and Korean	China and Chosen (Korea)	1	250,000
V	Indian	India	3-6	4,500,000
	Russian	Russia	3-6	750,000
	Chinese	China	3-6	1,800,000
Approximate world's pre-war supply				25,484,000

¹ Including American-Egyptian cotton.

Length¹ of Staple of the World's Cotton by Varieties

[In inches]

Source: United States Department of Agriculture

VARIETY	Minimum	Average	Maximum	VARIETY	Minimum	Average	Maximum
United States:				India:			
Sea Island	1 $\frac{1}{2}$	—	2 $\frac{1}{8}$	Cambodia	5 $\frac{3}{8}$	—	1 $\frac{1}{8}$
Meade	1 $\frac{5}{8}$	—	1 $\frac{3}{4}$	Karunganni	7 $\frac{1}{8}$	—	1
American-Egyptian	1 $\frac{1}{2}$	—	1 $\frac{3}{4}$	Broach	9 $\frac{1}{8}$	—	1
Upland long staple	1 $\frac{1}{8}$	—	1 $\frac{3}{4}$	Oomras	1 $\frac{1}{2}$	—	7 $\frac{1}{8}$
Upland short staple	2 $\frac{3}{4}$	—	1 $\frac{1}{4}$	Dholeras	5 $\frac{5}{8}$	—	7 $\frac{1}{8}$
Mexico	—	1	—	Kumptas	7 $\frac{1}{8}$	—	—
Egypt:				Western and Northern	9 $\frac{1}{4}$	—	7 $\frac{1}{8}$
Sakels	1 $\frac{3}{8}$	—	1 $\frac{5}{8}$	Tinnevellys	3 $\frac{1}{4}$	—	7 $\frac{1}{8}$
Brown and uppers	1 $\frac{1}{8}$	—	1 $\frac{3}{8}$	Bengals	3 $\frac{1}{8}$	—	9 $\frac{1}{8}$
China:				Sind-Punjab	9 $\frac{1}{8}$	—	9 $\frac{1}{8}$
Native	—	5 $\frac{5}{8}$	7 $\frac{1}{8}$	Brazil:			
American	—	—	1	Serido or Mocó	1 $\frac{3}{8}$	—	1 $\frac{3}{4}$
Russia:				Verdão	1 $\frac{3}{8}$	—	1 $\frac{3}{4}$
Native	2 $\frac{3}{8}$	—	2 $\frac{1}{4}$	Inteiro	1 $\frac{1}{4}$	—	—
American	—	—	1 $\frac{1}{8}$	Quebradinho	1 $\frac{1}{16}$	—	1 $\frac{3}{8}$
Peru:				Macaco or Garga	1 $\frac{1}{8}$	—	—
Full rough (aspero)	—	1 $\frac{1}{8}$	—	Cleveland	1 $\frac{1}{8}$	—	—
Semi-rough (semi-aspero)	—	1 $\frac{1}{16}$	—	Russel Big Boll	1 $\frac{1}{16}$	—	1 $\frac{3}{8}$
Egipto (suave)	1 $\frac{1}{16}$	—	1 $\frac{1}{8}$	Express	—	—	—
Tanguis	—	1 $\frac{5}{16}$	1 $\frac{1}{2}$	Webber	—	—	—
Mitafi	—	1 $\frac{1}{4}$	—	Herbaceo	7 $\frac{1}{8}$	—	1
				Durango	1 $\frac{1}{16}$	—	1 $\frac{1}{4}$
				Sea Island	—	1 $\frac{1}{8}$	—
				Campo Brito	—	1 $\frac{1}{8}$	—

¹ Figures are only approximate. It must be noted that opinions frequently differ as to length of certain varieties.

Range of Staple of Various Cottons

Source: Department of Agriculture

UNITED STATES

American-Egyptian	$1\frac{3}{8}$ to $1\frac{5}{8}$ inches, bulk about $1\frac{9}{16}$ inches
Upland Long Staples (Mississippi Delta and Arkansas)	$1\frac{1}{16}$ to $1\frac{5}{16}$ inches
Western Uplands	$\frac{7}{8}$ to $1\frac{1}{16}$ inches, with some $1\frac{1}{8}$ inches
Eastern Uplands	$\frac{7}{8}$ to 1 inch, with some below $\frac{7}{8}$ and some above 1 inch

INDIA

Dharwar No. 1 (Kumpta)	$\frac{7}{8}$ to 1 inch
Gadag No. 1 (Dharwar-American)	$\frac{13}{16}$ to $\frac{15}{16}$ inch
Surat	$\frac{15}{16}$ to $1\frac{1}{16}$ inches
Punjab American	$\frac{5}{8}$ to $1\frac{1}{8}$ inches
Cambodia	$\frac{7}{8}$ to $1\frac{1}{8}$ inches
Hagari (Sircar)	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Bengal	$\frac{1}{2}$ to $\frac{5}{8}$ inch

EGYPT

Uppers (high grade)	$1\frac{1}{16}$ to $1\frac{1}{8}$ inches
Uppers (low grade)	$1\frac{1}{16}$ inches
Upper (Ashmouni)	$1\frac{1}{8}$ inches
Upper (Zagora)	$1\frac{5}{32}$ inches
Sakellaridis (high grade)	$1\frac{5}{8}$ inches
Sakellaridis (low grade)	$1\frac{3}{16}$ to $1\frac{1}{4}$ inches
Cazuli	$1\frac{7}{16}$ inches
Nahda	$1\frac{7}{16}$ inches
Pilion	$1\frac{5}{16}$ inches
Sakellaridis Domains	$1\frac{5}{8}$ inches
310	$1\frac{9}{16}$ inches

PERU

Smooth Tanguis	$1\frac{1}{4}$ inches
Rough Tanguis	$1\frac{5}{32}$ inches
Egipto Tanguis	$1\frac{3}{32}$ inches
Mitaffi	$1\frac{1}{4}$ inches
Pima Peruvian	$1\frac{3}{8}$ inches
Full Rough Tanguis	$1\frac{3}{16}$ inches
Moderate (semi-rough)	$1\frac{3}{16}$ inches

CHINA

Tungchow	$\frac{13}{16}$ inch
Hakush	$\frac{1}{2}$ to $\frac{5}{8}$ inch
Sengsi (Shensi)	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Lingpao	$1\frac{1}{16}$ inches
Tien Tsin	Half and half
Indo China	$\frac{7}{8}$ inch

BRAZIL

Sao Paulo	$\frac{7}{8}$ inch
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Approximate Dates of Cotton Planting and Picking by Countries

Source: United States Department of Agriculture

COUNTRY	PLANTING			PICKING		
	Beginning	Principal Months	End	Begin- ing	Principal Months	End
United States ¹	March 15	—	May 25	July 1	—	Dec. 31
Mexico:						
Laguna District	—	—	March	July	—	Dec.
Lower California	March	—	July	Sept.	—	Feb.
Egypt	Feb.	—	May	Aug.	—	Dec.
China	May	—	—	Oct.	—	—
Russia	—	March-April	—	Aug.	—	Oct.
India	—	March-Dec.	—	—	Oct.-April	—
Brazil:						
North	Dec.	—	April	Aug.	—	Dec.
South	Sept.	—	Nov.	March	—	May
Peru ²	—	Oct.-Dec.	—	—	May-Sept.	—

¹ About 95 per cent of the crop is picked from August 1 to November 30.

² Planting and picking are carried on all the year. Some varieties yield several crops before they are replanted.

Usual Dates when Planting and Picking of Cotton Begins, is Most General, and Ends

Source: United States Department of Agriculture

STATES	PLANTING			PICKING		
	Beginning	General	Ending	Beginning	General	Ending
North Carolina	Apr. 19	May 2	May 16	Sept. 5	Oct. 11	Dec. 6
South Carolina	Apr. 5	Apr. 22	May 12	Aug. 25	Sept. 23	Dec. 5
Georgia	Apr. 5	Apr. 21	May 12	Aug. 27	Oct. 3	Dec. 9
Florida	Mar. 16	Mar. 28	Apr. 20	Aug. 16	Sept. 26	Nov. 27
Alabama	Apr. 8	Apr. 20	May 11	Aug. 29	Oct. 5	Dec. 7
Mississippi	Apr. 5	Apr. 21	May 11	Aug. 30	Oct. 4	Dec. 10
Louisiana	Mar. 29	Apr. 15	May 7	Aug. 26	Sept. 24	Dec. 14
Texas	Mar. 29	Apr. 14	May 9	Aug. 27	Oct. 2	Dec. 10
Arkansas	Apr. 15	Apr. 28	May 13	Sept. 6	Oct. 10	Dec. 9
Tennessee	Apr. 21	May 2	May 16	Sept. 4	Oct. 4	Nov. 30
Oklahoma	Apr. 18	May 2	May 24	Sept. 16	Oct. 18	Dec. 28
Missouri	Apr. 25	May 4	May 14	Sept. 22	Oct. 24	Dec. 10
Virginia	May 1	May 10	May 20	Sept. 15	Oct. 15	Jan. 1
California	Feb. 15	Apr. 15	June 1	Aug. 15	Dec.	Feb. 15

Average Gross Weights of Cotton Bales

Source: United States Department of Agriculture

VARIETY	Pounds
Egyptian	750
Chinese	450
East Indian	400
African	400
West Indian	400
Brazilian	375
Peruvian	356
American, Sea Island	374
American, Upland	498
North Carolina	486
South Carolina	491
Georgia	499
Alabama	509
Mississippi	508
Louisiana	502
Texas	514
Arkansas	511
Tennessee	510

Weight, Size, Density and Tare of Foreign Bales

Department of Commerce

	Egyptian	East Indian (Sindic)	African (Other than Egyptian)	BRAZIL		Mexican
				Pernam- buco	Rio	
Gross weight, pounds . . .	741	334	400	354	142	508
Size of bales:						
Height (inches) . . .	52	32	40½	51	56	49
Width (inches) . . .	21½	18	27	18	16	29
Depth (inches) . . .	32	27	27	21	30	46
Density per cubic foot (pounds)	35.8	37.1	23.41	31.749	9.13	13.43
Contents (cubic feet) . . .	20.7	9.0	17.08	11.15	15.55	37.82
Actual weight of canvas and bands	25	9¾	10	11¾	5	8

Estimated Cotton Production of Minor Producing Areas

[In bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

	1923-24	1924-25	1925-26	1926-27 ¹
Guatemala	825	2,100	1,000	1
Salvador	1,000	10,000	2,500	—
Colombia	5,000	8,000	8,000	1,000
Venezuela	10,000	15,000	12,000	(12,000)
Ecuador	10,000	11,500	6,000	5,400
Paraguay	16,000	12,200	10,000	11,000
Argentina	47,000	69,000	135,000	58,000
Haiti	15,000	16,000	20,000	22,000
Other West Indies	6,200	4,000	4,000	5,000
Greece	10,000	11,000	20,000	30,000
Malta	98	480	480	500
Cyprus	1,674	2,660	2,600	3,600
Jugoslavia	669	418	600	200
Bulgaria	1,800	2,960	1,700	3,000
Italy	5,000	4,520	4,500	4,500
Japan	4,000	3,000	—	—
Korea	111,000	121,000	125,000	145,000
French Indo-China	10,000	10,000	15,000	(15,000)
Siam	5,000	2,900	4,000	4,000
Afghanistan	5,000	5,000	5,000	5,000
Persia	40,000	60,000	90,000	90,000
Turkey	60,000	110,000	130,000	97,000
Dutch East Indies	8,000	8,000	6,000	2,000
New Hebrides	1,830	2,000	2,000	2,000
Australia	25,000	8,790	6,300	4,000
Fiji, etc.	79	80	120	380
Uganda	94,000	140,000	140,000	101,000
Tanganyika	8,400	15,700	17,300	21,000
Nigeria	18,000	24,000	30,000	40,000
British South Africa	5,020	7,300	26,200	9,000
Rhodesia	1,000	1,650	10,000	4,100
Sudan	41,000	45,000	106,000	130,000
French Africa	2,445	3,000	1,000	—
Belgian Congo	4,600	16,000	13,000	5,000
Togoland	4,600	5,000	5,000	(5,000)
Nyasaland	5,440	2,400	9,600	6,000
Mozambique	12,000	5,000	1,500	(1,500)
Algeria	795	2,238	5,800	9,000
Ivory Coast	100	100	100	—
Eritrea	1,381	2,760	2,000	2,300
Italian Somaliland	1,757	2,301	2,500	3,000
Gold Coast	837	800	500	500
Angola	2,000	2,000	2,000	2,000
Kenya	1,600	1,600	2,000	2,000
Total	605,150	777,457	984,300	861,981

¹ Figures in parentheses are carried forward from last year.

Cotton Acreage and Yield per Acre of Egypt, India and the United States

United States Bureau of the Census and Department of Agriculture

YEAR	EGYPT		INDIA		UNITED STATES	
	Acres	Pounds	Acres	Pounds	Acres	Pounds
1902 . . .	1,324,000	437	16,581,046	90	27,175,000	187
1903 . . .	1,383,000	466	18,025,000	79	27,052,000	174
1904 . . .	1,491,000	420	19,918,000	77	31,215,000	206
1905 . . .	1,626,000	363	20,401,000	83	27,110,000	187
1906 . . .	1,564,000	440	22,488,000	87	31,374,000	202
1907 . . .	1,664,000	431	21,630,000	58	29,660,000	179
1908 . . .	1,703,000	393	19,999,000	74	32,444,000	195
1909 . . .	1,619,000	309	20,545,000	92	32,044,000	154
1910 . . .	1,664,000	453	22,596,000	68	32,403,000	171
1911 . . .	1,776,000	412	21,615,000	61	36,045,000	208
1912 . . .	1,787,000	417	22,028,000	84	34,283,000	191
1913 . . .	1,789,000	425	25,020,000	81	37,089,000	182
1914 . . .	1,823,000	353	24,595,000	85	36,832,000	209
1915 . . .	1,231,000	387	17,746,000	84	31,412,000	170
1916 . . .	1,718,000	295	21,745,000	83	34,985,000	157
1917 . . .	1,741,000	359	25,188,000	64	33,841,000	160
1918 . . .	1,366,000	338	21,038,000	76	36,008,000	160
1919 . . .	1,633,000	399	23,353,000	99	33,566,000	161
1920 . . .	1,897,000	336	21,341,000	68	35,878,000	178
1921 . . .	1,341,000	329	18,451,000	97	30,509,000	125
1922 . . .	1,868,000	360	21,077,000	98	33,036,000	142
1923 . . .	1,856,000	354	23,088,000	88	41,360,000	130
1924 . . .	1,856,000	329	24,833,000	98	40,115,000	157
1925 . . .	1,998,000	390	27,960,000	86	46,053,000	167
1926 . . .	1,853,000	386	25,006,000	79	47,087,000	182
1927 . . .	1,573,815	394	23,812,000	95	40,168,000	152

Acreage planted to Egyptian Cotton, by Varieties

[Expressed in feddans¹]

Source: Egyptian Ministry of Agriculture

	1922	1923	1924	1925	1926	1927
Sakellaridis . . .	1,357,197	1,162,036	872,624	1,128,946	981,783	795,740
Ashmouni (Uppers)	276,193	287,171	2796,362	270,842	667,474	599,149
Mitaffi . . .	8,178	5,599	—	—	—	—
Nubari . . .	11,084	9,862	—	—	—	3—
Affi Assil . . .	7,878	7,246	22,271	8,384	4,234	4,261
Abassi . . .	2,274	1,772	3—	3—	3—	3—
Joanovich . . .	335	4,082	3—	3—	3—	3—
Pilion . . .	3—	3—	49,960	72,799	102,394	74,451
Various . . .	136,704	110,332	46,626	443,411	29,817	42,598
Total . . .	1,799,843	1,588,100	1,787,843	1,924,382	1,785,702	1,516,199

¹ 1 feddan = 1.038 acres.

² Including Zagoura, which has previously been included in "Various."

³ Included in "Various."

Acreage of Cotton planted, Acreage abandoned, and Acreage harvested in the United States

Source: United States Department of Agriculture

YEAR	Acreage planted ¹	Acreage abandoned	Acreage harvested
1912	34,766,000	483,000	34,283,000
1913	37,458,000	369,000	37,089,000
1914	37,406,000	574,000	36,832,000
1915	32,107,000	695,000	31,412,000
1916	36,052,000	1,067,000	34,985,000
1917	34,925,000	1,084,000	33,841,000
1918	37,207,000	1,199,000	36,008,000
1919	35,133,000	1,567,000	33,566,000
1920	37,043,000	1,165,000	35,878,000
1921	31,678,000	1,169,000	30,509,000
1922	34,016,000	980,000	33,036,000
1923	38,701,000	867,000	37,123,000
1924	41,390,000	1,275,000	41,360,000
1925	48,090,000	2,037,000	46,053,000
1926	48,730,000	1,636,000	47,087,000
1927 ²	42,112,000 ³	1,941,000	40,168,000

¹ Acreage planted is computed as of June 25 each year.

² 1927 figures are subject to revision.

³ July 1, 1927.

Acreage of Cotton harvested in the United States

Source: United States Department of Agriculture

STATE	THOUSANDS OF ACRES							
	1920	1921	1922	1923	1924	1925	1926	1927 ¹
Total	35,878	30,509	33,036	37,123	41,360	46,053	47,087	40,168
Alabama	2,858	2,235	2,771	3,079	3,055	3,504	3,651	3,225
Arizona	230	90	101	127	180	162	167	137
Arkansas	2,980	2,382	2,799	3,026	3,094	3,738	3,790	3,045
California ²	275	140	202	233	317	319	292	238
Florida	100	65	118	147	80	101	105	66
Georgia	4,900	4,172	3,418	3,421	3,046	3,589	3,965	3,412
Louisiana	1,470	1,168	1,140	1,405	1,616	1,874	1,979	1,560
Mississippi	2,950	2,628	3,014	3,170	2,981	3,466	3,752	3,338
Missouri	136	103	198	355	493	520	434	281
New Mexico	—	—	—	60	101	107	120	95
North Carolina	1,587	1,403	1,625	1,679	2,005	2,017	1,985	1,727
Oklahoma	2,749	2,206	2,915	3,197	3,861	5,214	4,676	3,433
South Carolina	2,964	2,571	1,912	1,965	2,404	2,654	2,648	2,421
Tennessee	840	634	985	1,172	996	1,173	1,143	943
Texas	11,898	10,745	11,874	14,150	17,175	17,608	18,374	16,270
Virginia	42	34	55	74	102	100	93	67
All other	24	18	44	73	41	57	43	20

¹ Preliminary estimate.

² Lower California (110,000 acres in 1927; 130,000 in 1926; 150,000 in 1925; 140,000 in 1924; 148,000 in 1923; 135,000 in 1922; 85,000 in 1921; 125,000 in 1920 and 100,000 in 1919) included in California figures, but excluded from United States totals.

Acreege and Production of Cotton in Egypt

Source: Egyptian Ministry of Finance

YEAR	Acreege in Feddans ¹	Acreege in Acres	Crop in Kantars Gross Weight ²	Crop in Equivalent 500-Pound Bales	Yield in Kantars per Feddan	Yield in Pounds per Acre
1911	1,711,241	1,776,000	7,386,000	1,463,000	4.32	412
1912	1,721,817	1,787,000	7,499,000	1,492,000	4.35	417
1913	1,723,094	1,789,000	7,664,000	1,522,000	4.44	425
1914	1,755,270	1,823,000	6,451,000	1,286,000	3.67	353
1915	1,186,004	1,231,000	4,775,000	952,000	4.03	387
1916	1,655,512	1,718,000	5,060,000	1,012,000	3.06	295
1917	1,677,310	1,741,000	6,293,000	1,249,000	3.75	359
1918	1,315,572	1,366,000	4,821,000	955,000	3.66	338
1919	1,573,662	1,633,000	5,572,000	1,248,000	3.54	399
1920	1,827,870	1,897,000	6,036,000	1,231,000	3.30	336
1921	1,291,878	1,341,000	4,353,000	862,000	3.37	329
1922	1,799,843	1,868,000	6,713,000	1,119,000	3.73	360
1923	1,588,100	1,648,000	5,844,000	1,160,000	3.68	351
1924	1,787,843	1,856,000	6,379,862	1,321,972	3.56	340
1925	1,924,382	1,998,000	7,860,000	1,629,000	4.08	390
1926	1,785,702	1,853,000	7,223,585	1,496,799	4.05	386
1927 ³	1,516,199	1,573,815	6,041,499	1,224,341	3.98	394

¹ 1 feddan = 1.038 acres.

² 1 kantar = 99.049 pounds.

³ Preliminary estimates.

Acreege and Crops of American-Egyptian Cotton

[Crops in 500-pound bales gross]

Source: United States Department of Agriculture

YEAR	Acreege planted	Crop
1912	520	375
1913	3,500	2,135
1914	12,000	6,187
1915	2,330	1,095
1916	5,477	3,331
1917	33,000	15,966
1918	80,000	36,187
1919	90,000	40,437
1920	240,000	91,965
1921	80,000	37,094
1922	77,000	32,824
1923	40,000	22,426
1924	8,000	4,319
1925	40,000	20,053
1926	27,000	16,232
1927	46,000	24,223

Dates of Earliest Killing Frosts in Autumn in the Cotton Belt of the United States during the Past Six Years

Source: United States Weather Bureau

	1922	1923	1924	1925	1926	1927
North Carolina:						
Charlotte .	Nov. 23	Nov. 9	Nov. 19	Oct. 29	Nov. 11	Nov. 7
Rockingham .	Nov. 11	Nov. 2 ¹	Oct. 24	Oct. 11 ¹	Oct. 26	Nov. 7
Raleigh .	Nov. 22	Nov. 2	Nov. 18	Oct. 29	Nov. 4	Nov. 7
Goldsboro .	Nov. 11 ¹	Nov. 9 ¹	Nov. 18 ¹	Oct. 11 ¹	Oct. 18	Nov. 6 ¹
South Carolina:						
Charleston .	Nov. 29	Nov. 10	Nov. 30	Nov. 24	Dec. 19	Dec. 20
Columbia .	Nov. 22	Nov. 9	Nov. 19	Nov. 24	Nov. 11	Nov. 21
Georgia:						
Atlanta .	Nov. 21	Nov. 9	Nov. 25	Oct. 29	Nov. 3	Nov. 19
Augusta .	Nov. 22	Nov. 10	Nov. 19	Nov. 24	Nov. 12	Nov. 21
Savannah .	Nov. 29	Nov. 10	Nov. 30	Nov. 24	Nov. 12	Dec. 9 ¹
Columbus .	Nov. 29	Nov. 10	Nov. 26	Nov. 17	Nov. 11	Nov. 19
Rome .	Nov. 10	Nov. 8	Nov. 19 ¹	Oct. 29	Nov. 3	Nov. 19
Alabama:						
Eufaula .	Nov. 29	Nov. 10	Nov. 26	Nov. 17	Nov. 11 ¹	Nov. 19
Mobile .	None	Jan. 6 ²	Nov. 26	Dec. 23	Dec. 16	Dec. 9
Montgomery .	Nov. 29	Dec. 7	Nov. 26	Nov. 23	Nov. 11	Nov. 19
Mississippi:						
Vicksburg .	Dec. 19	Nov. 30	Nov. 25	Nov. 23	Nov. 10	Nov. 18
Greenville .	Nov. 26	Nov. 7	Oct. 24	Oct. 20 ¹	Oct. 25 ¹	Dec. 3 ¹
Louisiana:						
New Orleans .	None	Jan. 6 ²	Dec. 26	Dec. 28	None	Dec. 9
Shreveport .	Nov. 21	Dec. 6	Nov. 25	Nov. 23	Nov. 10	Nov. 17
Texas:						
Galveston .	None	Jan. 7 ²	Dec. 19	Dec. 23	None	Dec. 8
Palestine .	Dec. 19	Dec. 14	Dec. 10	Nov. 23	Nov. 18	Dec. 8
San Antonio .	None	Jan. 1 ²	Dec. 19	Nov. 16	None	Dec. 8
Fort Worth .	Dec. 10	Dec. 14	Dec. 9	Oct. 28	Nov. 10	Dec. 1
Arkansas:						
Little Rock .	Nov. 26	Nov. 30	Nov. 25	Oct. 30	Nov. 3	Nov. 17
Fort Smith .	Nov. 26	Nov. 29	Nov. 24	Oct. 28	Nov. 5	Nov. 16
Tennessee:						
Memphis .	Nov. 16	Oct. 31	Nov. 29	Oct. 29	Oct. 25	Nov. 18
Nashville .	Nov. 21	Nov. 1	Oct. 24	Oct. 20	Nov. 3	Nov. 6
Chattanooga .	Nov. 21	Nov. 9	Nov. 20	Oct. 29	Nov. 6	Nov. 19
Oklahoma:						
Ardmore .	Nov. 20	Nov. 30 ¹	Nov. 24	Oct. 25	Nov. 9 ¹	Nov. 17
Oklahoma .	Nov. 14	Oct. 31	Nov. 24	Oct. 25	Nov. 9	Nov. 12
Mangum .	Nov. 13	Nov. 6 ¹	Nov. 7 ¹	No record	Nov. 2	Nov. 12

¹ First date with temperature of 32° or below.

² 1924.

Dates of Earliest Killing Frosts in Autumn, and Latest Killing Frosts in Spring, from Beginning of Record kept by United States Weather Bureau to December 31, 1927

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Virginia:					
Newport News . . .	28	Oct. 3	Nov. 6	April 26	March 28
Norfolk	55	Oct. 11	Nov. 17	April 26	March 25
Richmond	30	Oct. 12	Oct. 31	April 26	April 7
North Carolina:					
Greensboro	24	Oct. 11	Oct. 30	April 26	April 9
Raleigh	41	Oct. 8	Nov. 5	April 26	March 29
Wilmington	57	Oct. 16	Nov. 13	May 1	March 23
Charlotte	49	Oct. 8	Nov. 5	April 26	March 28
Monroe	31	Oct. 2	Oct. 19	May 10	April 14
South Carolina:					
Charleston	57	Nov. 8	Dec. 10	April 2	Feb. 20
Columbia	48	Oct. 30	Nov. 18	April 17	March 18
Greenwood	30	Oct. 11	Nov. 8	April 17	March 25
Spartanburg	37	Sept. 24	Nov. 1	April 17	March 30
Greenville	32	Oct. 10	Nov. 2	April 24	April 3
Georgia:					
Macon	28	Oct. 11	Nov. 7	April 18	March 23
Athens	34	Oct. 11	Nov. 1	April 21	April 2
Augusta	54	Oct. 21	Nov. 10	April 17	March 22
Savannah	55	Oct. 25	Nov. 24	April 13	Feb. 26
Rome	36	Oct. 11	Oct. 27	April 24	April 9
Columbus	31	Oct. 11	Nov. 6	April 26	March 22
Gainesville	31	Oct. 11	Oct. 27	April 24	April 9
Newnan	31	Oct. 11	Nov. 5	April 26	April 5
Thomasville	33	Oct. 21	Nov. 15	April 26	March 14
Florida:					
Gainesville	30	Nov. 10	Dec. 3	April 2	Feb. 26
Jacksonville	72	Nov. 12	Dec. 6	April 10	Feb. 16
Lake City	35	Oct. 25	Nov. 28	April 26	March 10
Pensacola	48	Oct. 27	Dec. 7	April 6	Feb. 17
Tallahassee	37	Nov. 4	Dec. 1	April 10	March 4
Tampa	38	Nov. 21	Jan. 3	April 7	Jan. 26
Alabama:					
Anniston	23	Oct. 11	Nov. 1	April 25	March 24
Opelika	33	Oct. 21	Nov. 11	April 17	March 20
Montgomery	56	Oct. 21	Nov. 11	April 5	March 10
Selma	30	Oct. 13	Nov. 10	April 26	March 16
Eufaula	36	Oct. 21	Nov. 12	April 26	March 16
Mobile	57	Oct. 31	Dec. 5	April 6	Feb. 17
Decatur	32	Oct. 11	Nov. 2	April 26	March 28
Birmingham	33	Oct. 21	Nov. 9	April 20	March 16
Tuscaloosa	39	Oct. 21	Nov. 6	April 25	March 27
Thomasville	30	Oct. 20	Nov. 10	April 26	March 17
Mississippi:					
Yazoo City	33	Oct. 13	Nov. 2	April 25	March 20
Vicksburg	57	Oct. 20	Nov. 12	April 6	March 4
Meridian	38	Oct. 8	Nov. 5	April 25	March 18
Natchez	33	Oct. 20	Nov. 14	April 25	March 14

Dates of Earliest Killing Frosts in Autumn and Latest Killing Frosts in Spring, and Average Dates, etc. — (Concluded)

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Mississippi (Continued):					
Greenville	37	Oct. 10	Nov. 6	April 26	March 19
Greenwood	28	Oct. 13	Oct. 31	April 26	March 25
Columbus	33	Oct. 11	Oct. 31	April 26	March 27
Louisiana:					
Baton Rouge	41	Oct. 14	Nov. 18	April 5	Feb. 20
New Orleans	55	Nov. 11	Dec. 16	March 27	Jan. 25
Monroe	34	Oct. 10	Nov. 10	April 9	March 11
Natchez (see Mississippi)					
Shreveport	55	Oct. 20	Nov. 10	April 9	March 6
Vicksburg (see Mississippi)					
Texas:					
Houston	37	Oct. 25	Dec. 1	March 26	Feb. 19
Galveston	56	Nov. 16	Dec. 26	March 1	Jan. 19
Corpus Christi	41	Nov. 29	Dec. 28	March 19	Jan. 21
Luling	36	Oct. 27	Nov. 21	April 9	March 6
Cuero	35	Oct. 27	Nov. 23	April 5	Feb. 27
San Antonio	42	Oct. 30	Nov. 28	April 5	Feb. 24
El Paso	40	Oct. 27	Nov. 15	April 26	March 14
Abilene	42	Oct. 19	Nov. 10	April 23	March 21
Amarillo	36	Sept. 22	Oct. 29	May 23	April 17
Fort Worth	33	Oct. 22	Nov. 12	April 9	March 11
Lampasas	35	Oct. 9	Nov. 9	May 2	March 22
Taylor	33	Oct. 30	Nov. 22	April 5	March 13
Temple	36	Oct. 29	Nov. 18	April 9	March 10
Austin	57	Oct. 28	Nov. 22	April 9	March 5
Waco	37	Oct. 22	Nov. 12	April 9	March 12
Gainesville	37	Oct. 9	Nov. 6	May 1	March 28
Dallas	38	Oct. 8	Nov. 13	May 1	March 19
Waxahachie	29	Oct. 9	Nov. 7	April 30	March 27
Corsicana	37	Oct. 22	Nov. 14	May 1	March 15
Palestine	45	Oct. 20	Nov. 13	April 5	March 13
Nacogdoches	27	Oct. 21	Nov. 12	April 25	March 18
Greenville	26	Oct. 19	Nov. 12	April 26	March 19
Paris	37	Oct. 9	Nov. 11	April 17	March 19
Arkansas:					
Fort Smith	46	Oct. 9	Nov. 5	April 17	March 21
Little Rock	48	Oct. 22	Nov. 13	April 26	March 18
Pine Bluff	34	Oct. 11	Nov. 4	April 25	March 24
Texarkana	35	Oct. 9	Nov. 9	April 17	March 20
Tennessee:					
Memphis	56	Oct. 2	Nov. 3	April 25	March 22
Nashville	57	Oct. 8	Oct. 27	April 24	April 2
Chattanooga	49	Sept. 30	Oct. 26	May 14	April 2
Decatur	31	Oct. 2	Oct. 23	May 14	April 18
Knoxville	57	Oct. 1	Oct. 28	April 26	April 2
Oklahoma:					
Muskogee	26	Oct. 10	Nov. 3	April 21	March 22
Oklahoma	37	Oct. 7	Nov. 2	April 30	March 31
Missouri:					
St. Louis	55	Sept. 30	Oct. 27	May 22	April 4

Forecasts of American Cotton Crops by United States Department of Agriculture compared with Actual Yield and Production Forecasts of Yield per Acre

YEAR	FORECASTS OF YIELD PER ACRE (POUNDS)					Actual Yield (Pounds)	POUNDS VARIATION OF FORECAST FROM YIELD				
	May 25	June 25	July 25	Aug. 25	Sept. 25		May 25	June 25	July 25	Aug. 25	Sept. 25
1927 ¹	—	—	—	156.8	149.3	152.3	—	—	—	—	—
1926 ²	—	158.5	155.8	151.6	160.0	187.0	—	—	—	—	—
1925 ²	—	147.7	140.0	141.3	143.5	162.3	—	—	—	—	—
1924 ²	—	143.8	141.3	153.5	149.2	156.8	—	—	—	—	—
1923 ²	—	142.6	143.9	131.8	137.7	128.8	—	—	—	—	—
1922 ²	—	151.1	157.1	145.1	139.1	141.6	—	—	—	—	—
1921 ²	—	132.2	148.1	127.1	118.1	126.9	—	—	—	—	—
1920 ²	—	135.9	170.4	174.0	165.0	170.8	—	—	—	—	—
1919 ²	—	156.4	156.8	159.8	158.0	158.2	—	—	—	—	—
1918 ²	—	199.8	177.3	143.2	154.1	155.9	—	—	—	—	—
1917 ²	—	162.5	166.9	174.6	168.3	153.7	—	—	—	—	—
1916 ²	—	191.6	173.4	158.5	156.3	156.3	—	—	—	—	—
1915 ²	—	—	—	—	168.1	172.5	—	—	—	—	—

¹ 1927 reports were dated August 1, September 1 and December 1. ² 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.

Forecasts of Total Crop [500-pound gross bales, exclusive of linters]

YEAR	FORECASTS OF CROPS					Actual Production	AMOUNT OF VARIATION OF FORECASTS FROM ACTUAL PRODUCTION				
	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.		June 25	July 25	Aug. 25	Sept. 25	Dec. Est.
1927 ¹	—	—	13,492,000	12,692,000	12,789,000	12,950,000 ³	—	—	—	—	—
1926 ²	15,635,000	15,368,000	15,248,000	15,810,000	15,618,000	17,977,374	-2,342,374	-2,609,374	+542,000	-258,000	-161,000
1925 ²	14,339,000	13,588,000	13,990,000	13,931,000	15,603,000	16,103,679	-1,764,679	-2,513,679	-2,729,374	-2,167,373	+640,626
1924 ²	12,141,000	11,934,000	12,656,000	12,596,000	13,153,000	13,627,936	-1,483,936	-1,693,936	-671,936	-1,031,936	-300,679
1923 ²	11,412,000	11,516,000	10,788,000	11,015,000	10,931,000	10,139,671	+1,272,329	+1,376,329	+648,329	+875,329	-474,936
1922 ²	11,065,000	11,449,000	10,575,000	10,135,000	9,964,000	9,762,069	+1,302,931	+1,686,931	+812,931	+372,931	-58,671
1921 ²	8,433,000	8,203,000	7,637,000	6,537,000	8,340,000	7,953,641	+479,359	+1,404,359	-916,641	-1,416,641	+191,931
1920 ²	11,450,000	12,519,000	12,783,000	12,123,000	12,987,000	13,439,603	-1,989,603	-920,603	-656,603	-1,316,603	-452,603
1919 ²	10,986,000	11,016,000	11,230,000	10,696,000	11,030,000	11,420,763	-1,404,763	-1,404,763	-190,763	-724,763	-390,763
1918 ²	15,325,000	13,619,000	11,137,000	11,818,000	11,700,000	12,040,632	+3,284,468	+1,578,468	-903,532	-222,532	-340,532
1917 ²	11,633,000	11,949,000	12,439,000	12,047,000	10,949,000	11,302,375	+330,625	+646,625	+1,196,625	+744,625	-353,375
1916 ²	14,266,000	12,916,000	11,800,000	11,637,000	11,511,000	11,449,930	+2,816,070	+1,466,070	+350,070	+187,070	+61,070
1915 ²	—	—	—	10,950,000	11,161,000	11,191,820	—	—	—	-241,820	-30,820

¹ 1927 reports were dated August 1, September 1 and December 1.
² 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.
³ March, 1928, Ginning Report.

Computation of Cotton Crop Condition

The following statement from the Bureau of Agricultural Economics outlines the method used to obtain the government cotton crop condition estimate:

The condition figures published by this Bureau are based upon a normal condition. A normal condition is such a condition as would be expected at the date to which the report relates if conditions are favorable to the crop; that is to say, assuming that good seed had been planted under favorable conditions and that the crop had not suffered material injury from drought, storms, insect pests, plant diseases, or other unfavorable influences. Normal is not an ideal condition, but represents something rather close to the average of good years. The bearing of condition is upon final yield per acre rather than upon total production, because condition does not involve the question of acreage.

The yield per acre to be expected from a condition of 100 per cent or normal for any month is determined each year by a study of the relation of condition in that month to final yield in previous years. The reported per cent of a normal June 25 condition would, of course, indicate a corresponding per cent of the established normal yield per acre for June 25. This promised yield per acre, being multiplied by the number of acres, gives an indication of total production. All such forecasts are based upon the assumption that conditions affecting the crop developing after the date of report will be average, and that the final yield will prove greater or less than the forecast according as such future influences prove more or less favorable than in an average year.

A condition in June of 71 would not necessarily indicate the same production as the same figure for the following month because conditions average higher in June than in July for most crops, and distinctly so for cotton. The comparison each month is with normal conditions for that month. While the conditions of 71 per cent normal in June might be 80 per cent of the June *average* condition, the same per cent of July normal might be 90 per cent of July *average* condition and indicate a correspondingly higher yield.

Condition of American Cotton Crops on May 25¹

Source: United States Department of Agriculture

STATE	1918	1919	1920	1921	1922	1923	1924	1925
Virginia	89	89	71	77	91	79	62	72
North Carolina	84	85	70	65	84	77	71	74
South Carolina	80	78	68	58	67	64	68	71
Georgia	78	81	55	63	71	65	68	78
Florida	75	75	62	60	85	87	77	88
Alabama	78	78	58	57	80	70	70	80
Mississippi	86	73	65	60	75	70	69	84
Louisiana	85	74	72	57	70	68	70	84
Texas	82	76	60	71	61	77	66	70
Arkansas	85	68	61	70	76	66	58	85
Tennessee	90	64	60	69	79	70	54	82
Missouri	79	70	64	75	90	54	52	77
Oklahoma	86	65	70	74	67	63	58	86
California	91	91	86	75	84	93	91	98
Arizona	90	—	80	84	81	92	90	90
New Mexico	—	—	—	—	73	90	89	85
All other	—	—	—	—	—	—	—	90
United States	82.3	75.6	62.4	66.0	69.6	71.0	65.6	76.6

¹ No May 25 Cotton Crop Report for 1926 and 1927.

Condition of American Cotton Crops on June 25¹

Source: United States Department of Agriculture

STATE	1919	1920	1921	1922	1923	1924	1925	1926
Virginia	82	73	70	85	90	61	83	62
North Carolina	83	74	67	76	80	73	77	63
South Carolina	78	74	65	60	64	69	70	55
Georgia	72	63	64	58	56	75	76	70
Florida	57	63	70	75	65	79	84	78
Alabama	67	67	59	68	68	70	79	78
Mississippi	63	69	67	76	67	74	88	78
Louisiana	61	77	64	69	69	78	81	73
Texas	69	71	72	72	77	70	64	80
Arkansas	64	72	78	80	66	68	87	79
Tennessee	64	69	74	83	67	67	85	72
Missouri	60	72	80	92	62	60	90	80
Oklahoma	69	77	75	76	64	72	88	78
California	99	83	77	91	91	90	95	99
Arizona	93	80	88	85	92	92	92	91
New Mexico	—	—	—	—	80	80	88	80
All other	—	—	—	—	—	72	94	74
United States	70.0	70.7	69.2	71.2	69.9	71.2	75.9	75.4

¹ No June 25 Cotton Crop Report for 1927.

Condition of American Cotton Crops on July 25

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²
Virginia	74	82	80	88	54	76	71	75
North Carolina . .	77	75	78	82	56	77	68	78
South Carolina . .	77	62	60	64	59	71	55	66
Georgia	68	59	54	48	76	74	61	65
Florida	64	60	65	52	76	82	80	71
Alabama	67	58	70	66	70	78	71	70
Mississippi	71	68	74	65	70	83	70	68
Louisiana	71	59	70	68	66	76	71	64
Texas	74	62	72	71	69	56	73	69
Arkansas	78	76	81	68	70	85	72	68
Tennessee	76	75	85	69	68	79	71	69
Missouri	81	80	90	70	65	80	79	61
Oklahoma	85	68	75	63	72	76	78	75
California	85	83	95	88	90	92	99	90
Arizona	85	89	86	91	94	94	89	85
New Mexico	—	88	85	85	83	82	84	83
All other	—	—	—	—	70	79	73	67
United States . .	74.1	64.7	70.8	67.2	68.5	70.4	70.7	69.5

¹ Condition on July 16. Change due to the inauguration of semi-monthly reports.² Condition on August 1.**Condition of American Cotton Crops on August 25**

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²
Virginia	81	63	68	93	62	79	65	70
North Carolina . .	79	62	65	71	59	75	73	64
South Carolina . .	71	50	46	57	59	53	53	48
Georgia	58	41	44	42	70	61	56	55
Florida	57	59	60	30	72	78	70	58
Alabama	58	53	60	52	70	70	65	58
Mississippi	60	57	60	48	65	77	67	57
Louisiana	55	45	60	53	50	65	64	55
Texas	67	42	59	55	61	46	61	56
Arkansas	75	63	63	57	71	79	67	55
Tennessee	75	74	65	64	72	82	70	60
Missouri	83	78	70	67	70	81	74	52
Oklahoma	84	48	53	46	75	74	66	51
California	80	83	91	88	90	93	94	90
Arizona	86	85	87	90	85	92	83	90
New Mexico	—	—	85	88	92	77	86	90
All other	—	—	—	—	75	92	79	77
United States . .	67.5	49.3	57.0	54.1	64.9	62.0	63.5	56.1

¹ Condition on August 16.² Condition on September 1.

Condition of American Cotton Crops on September 25

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²
Virginia	72	53	63	83	60	64	66	64
North Carolina	68	54	59	64	52	62	69	57
South Carolina	62	40	38	53	47	43	55	44
Georgia	51	33	37	31	59	53	56	54
Florida	50	50	55	20	71	71	65	57
Alabama	49	46	55	42	59	64	62	60
Mississippi	50	48	54	37	57	73	62	58
Louisiana	47	41	53	45	48	70	58	54
Texas	61	38	52	56	52	42	57	55
Arkansas	65	53	57	50	59	64	59	54
Tennessee	66	62	56	47	60	60	54	56
Missouri	75	70	70	64	63	64	61	50
Oklahoma	70	38	42	49	64	55	62	44
California	78	73	80	84	77	90	92	91
Arizona	90	81	80	90	72	92	81	87
New Mexico	—	—	—	84	85	85	90	85
All other	—	—	—	—	77	75	69	69
United States	59.1	42.2	50.0	49.5	55.4	53.8	59.5	54.2

¹ Condition on September 16.² Condition on October 1.

Condition of American Cotton Crop on Reporting Dates in 1927

Source: United States Department of Agriculture

STATE	Aug. 1, 1927	Sept. 1, 1927	Oct. 1, 1927
Virginia	75	70	64
North Carolina	78	64	57
South Carolina	66	48	44
Georgia	65	55	54
Florida	71	58	57
Alabama	70	58	60
Mississippi	68	57	58
Louisiana	64	55	54
Texas	69	56	55
Arkansas	68	55	54
Tennessee	69	60	56
Missouri	61	52	50
Oklahoma	75	51	44
California	90	90	91
Arizona	85	90	87
New Mexico	83	90	85
All other	67	77	69
United States	69.5	56.1	54.2

United States Cotton Production, per Acre, by States

[In pounds]

Source: United States Department of Agriculture

STATE	1919	1920	1921	1922	1923	1924	1925	1926	1927 ¹
United States	161.5	178	124.5	141.3	130.6	157.4	167.7	182.6	152.3
Alabama .	122	111	124	142	91	154	185	196	178
Arizona .	270	224	242	222	292	285	350	349	325
Arkansas .	155	195	161	173	98	169	205	195	154
California	268	266	258	188	285	284	340	387	352
Florida .	74	86	80	102	40	130	180	145	122
Georgia .	152	138	90	100	82	157	155	180	154
Louisiana .	93	126	114	144	125	145	232	200	167
Mississippi .	160	145	148	157	91	176	275	241	192
Missouri .	257	275	325	360	171	185	275	240	177
New Mexico .	—	—	—	—	230	266	298	299	352
North Carolina	266	275	264	250	290	196	261	292	237
Oklahoma .	195	230	104	103	98	187	155	181	138
South Carolina	240	260	140	123	187	160	160	182	145
Tennessee .	195	185	228	190	92	170	210	188	175
Texas .	140	174	98	130	147	138	143	147	126
Virginia .	255	230	230	230	325	180	250	264	230
All other .	—	—	—	—	226	164	214	189	166

¹ Data for 1927 are preliminary estimates.

Average Grades of Recent Cotton Crops

Henry G. Hester, Secretary of the New Orleans Cotton Exchange, computes the average grades of recent American cotton crops to have been as follows:

1916-17, middling to strict middling.
 1917-18, middling.
 1918-19, barely middling.
 1919-20, strict low middling.
 1920-21, barely middling.
 1921-22, middling.
 1922-23, middling.
 1923-24, strict low middling to middling.
 1924-25, middling.
 1925-26, strict low middling.
 1926-27, strict low middling to middling.

United States Production of Cotton and Linters

Source: United States Bureau of the Census

GROWTH YEAR	COTTON, EXCLUSIVE OF LINTERS		LINTERS		COTTON, INCLUDING LINTERS	
	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight
1902	10,588,250	10,630,945	196,223	196,223	10,784,473	10,827,168
1903	9,819,969	9,851,129	195,752	194,486	10,015,721	10,045,615
1904	13,451,337	13,438,012	245,973	241,942	13,697,310	13,679,954
1905	10,495,105	10,575,017	230,497	229,539	10,725,602	10,804,556
1906	12,983,201	13,273,809	322,064	321,689	13,305,265	13,595,498
1907	11,057,822	11,107,179	268,060	268,282	11,325,882	11,375,461
1908	13,086,005	13,241,799	346,126	345,507	13,432,131	13,587,306
1909	10,072,731	10,004,949	313,478	310,433	10,386,209	10,315,382
1910	11,568,334	11,608,616	397,628	397,072	11,965,962	12,005,688
1911	15,553,073	15,692,701	556,276	557,575	16,109,349	16,250,276
1912	13,488,539	13,703,421	602,324	609,594	14,090,863	14,313,015
1913	13,982,811	14,156,486	631,153	638,881	14,613,964	14,795,367
1914	15,905,840	16,134,930	832,401	856,900	16,738,241	16,991,830
1915	11,068,173	11,191,820	944,640	931,141	12,012,813	12,122,961
1916	11,363,915	11,449,930	1,300,163	1,330,714	12,664,078	12,780,644
1917	11,248,242	11,302,375	1,096,422	1,125,719	12,344,664	12,428,094
1918	11,906,480	12,040,532	910,236	929,516	12,816,716	12,970,048
1919	11,325,532	11,420,763	595,093	607,969	11,920,625	12,028,732
1920	13,270,970	13,439,603	429,005	440,313	13,699,975	13,879,916
1921	7,977,778	7,953,641	382,375	397,752	8,360,153	8,351,393
1922	9,729,306	9,762,069	590,537	607,779	10,319,843	10,369,848
1923	10,170,694	10,139,671	639,540	668,600	10,810,234	10,808,271
1924	13,639,399	13,627,936	857,962	897,375	14,497,361	14,525,311
1925	16,122,516	16,103,679	1,044,495	1,114,877	17,167,011	17,218,556
1926	17,755,070	17,977,374	1,041,864	1,157,861	18,796,934	19,135,235

Summary of Commercial Crops of American Cotton

[In running bales, including linters]

Source: New Orleans Cotton Exchange

	1922-23	1923-24	1924-25	1925-26	1926-27
Port receipts . . .	5,935,645	6,591,008	9,557,735	10,037,603	12,902,055
Overland to mills . .	1,267,819	880,814	1,294,406	1,517,750	1,628,931
Southern consumption .	4,487,535	3,985,328	4,380,118	4,778,926	5,471,391
Total movement . .	11,690,999	11,817,150	15,232,259	16,334,279	20,002,377
Less taken by southern mills from ports . .	408,193	526,753	533,903	719,572	796,448
Total crops . . .	11,282,806	11,290,397	14,698,356	15,614,707	19,205,929

United States Commercial Crops of Cotton

Source: New Orleans Cotton Exchange

STATE	1922-23	1923-24	1924-25	1925-26	1926-27
Alabama	981,000	710,000	1,042,000	1,244,000	1,523,000
Arkansas	1,118,000	725,000	1,163,000	1,443,000	1,803,000
Florida	30,000	15,000	21,000	41,000	35,000
Georgia	1,035,000	790,000	1,135,000	1,174,000	1,615,000
Louisiana	368,000	394,000	515,000	833,000	843,000
Oklahoma	664,000	705,000	1,610,000	1,606,000	1,846,000
Mississippi	1,108,000	758,000	1,220,000	1,847,000	1,971,000
North Carolina, etc. ¹	1,068,000	1,262,000	972,000	1,138,000	1,407,000
South Carolina	799,000	920,000	903,000	910,000	1,093,000
Tennessee, etc. ²	675,000	609,000	878,000	1,133,000	1,172,000
Texas	3,437,000	4,402,000	5,239,000	4,246,000	5,898,000
Total crop	11,283,000	11,290,000	14,698,000	15,615,000	19,206,000

¹ Including Virginia and Kentucky.

² Including Missouri, California, Arizona, etc.

United States Production of Cotton, Exclusive of Linters

[Running bales, counting round as half bales]

Source: United States Bureau of the Census

STATE	1922	1923	1924	1925	1926	1927 ¹
Alabama	819,870	599,140	985,653	1,356,402	1,470,404	1,173,303
Arizona	44,132	77,704	109,950	115,359	120,089	90,215
Arkansas	1,010,520	643,643	1,086,814	1,594,389	1,513,382	979,159
California	28,473	55,313	79,938	122,260	128,835	89,998
Florida	27,428	13,628	19,756	40,208	33,231	17,361
Georgia	735,874	612,812	1,030,202	1,192,952	1,498,473	1,110,923
Louisiana	345,407	373,812	498,396	912,246	826,179	542,576
Mississippi	985,787	622,617	1,116,350	1,985,524	1,857,525	1,346,201
Missouri	139,881	124,676	192,981	292,950	215,769	115,558
New Mexico	—	28,333	55,858	64,706	70,206	64,876
North Carolina	879,294	1,053,402	860,147	1,147,340	1,246,754	879,071
Oklahoma	637,003	665,904	1,506,077	1,680,304	1,760,644	1,009,104
South Carolina	517,464	793,817	837,815	929,040	1,025,991	738,529
Tennessee	385,860	235,344	355,919	513,130	442,052	355,685
Texas	3,125,758	4,212,248	4,850,956	4,098,249	5,477,788	4,227,750
Virginia	27,011	51,982	40,180	54,016	51,891	30,523
All other states	19,544	6,319	12,417	23,441	15,857	6,673
Total	9,729,306	10,170,594	13,639,399	16,122,516	17,755,070	12,777,505

¹ March, 1923, preliminary report.

Active and Idle Gineries in the United States and Average Number of Running Bales ginned per Active Establishment

Source: United States Bureau of the Census

GROWTH YEAR	Total Gineries	Active Gineries	Idle Gineries	Bales ginned per Establishment
1916	25,999	21,624	4,375	526
1917	24,272	20,351	3,921	553
1918	23,439	19,259	4,180	618
1919	22,418	18,815	3,603	602
1920	21,876	18,440	3,436	720
1921	20,938	16,192	4,746	493
1922	19,939	15,420	4,519	631
1923	19,195	15,298	3,897	665
1924	18,656	15,478	3,178	831
1925	18,262	15,482	2,780	1,041
1926	18,179	15,753	2,426	1,127

Estimated Values of Cotton and Cotton Seed produced

Source: United States Bureau of the Census

GROWTH YEAR	Value of Cotton produced	Value of Cotton Seed produced	Total Value of Cotton Crop
1916	\$994,060,000	\$259,070,000	\$1,253,130,000
1917	1,532,690,000	333,550,000	1,866,240,000
1918	1,737,710,000	349,490,000	2,087,200,000
1919	2,030,960,000	340,470,000	2,371,430,000
1920	1,067,240,000	136,990,000	1,204,230,000
1921	675,630,000	104,560,000	780,190,000
1922	1,117,060,000	150,400,000	1,267,460,000
1923	1,455,170,000	190,050,000	1,645,220,000
1924	1,561,010,000	206,220,000	1,767,230,000
1925	1,577,480,000	220,360,000	1,797,840,000
1926	1,121,115,000	172,120,000	1,293,235,000

Yearly Average Prices of Cotton and Cotton Seed paid to Producers in the United States

Source: United States Bureau of the Census

CROP YEAR	Yearly Average Price of Lint Cotton per Pound (in Cents)	Yearly Average Price of Cotton Seed per Ton
1916	17.28	\$50.50
1917	27.12	66.08
1918	28.76	65.32
1919	35.36	67.18
1920	15.89	22.92
1921	16.90	29.72
1922	22.85	34.70
1923	28.70	42.22
1924	22.91	34.16
1925	19.59	30.88
1926	12.47	21.63

Cotton ginned to Specified Dates and throughout the Season

[Running bales, except that round bales are counted as half bales. Linters are not included]

Source: United States Bureau of the Census

COTTON GINNED TO —	YEAR OF GROWTH					
	1922	1923	1924	1925	1926	1927 ¹
September 1	806,189	1,142,660	947,494	1,886,399	693,556	1,540,025
September 25	3,866,396	3,235,974	4,527,668 ²	7,126,248 ²	2,509,103 ²	3,505,552 ²
October 18	6,978,321	6,409,391	7,615,981	9,518,946	8,727,709	8,118,978
November 1	8,139,215	7,556,042	9,715,643	11,207,197	11,258,873	9,925,795
November 14	8,869,978	8,369,498	11,162,235	12,260,352	12,956,444	10,899,182
December 1	9,319,601	9,243,380	12,237,659	13,870,507	14,644,070	11,742,806
December 13	9,488,852	9,549,015	12,792,294	14,831,846	15,540,804	12,071,799
January 1	9,597,330	9,811,038	— ³	— ³	— ³	— ³
January 16	9,648,261	9,944,032	13,306,813	15,499,893	16,616,075	12,501,845
Total gin- nings	9,729,306	10,170,594	13,639,399	16,122,516	17,755,070	12,777,505

¹ March, 1928, preliminary report.

² Ginned to September 16.

³ No ginning report.

Per Cent of Total Cotton ginned to Specified Dates

Source: United States Bureau of the Census

PER CENT GINNED TO —	YEAR OF GROWTH						
	1921	1922	1923	1924	1925	1926	1927 ¹
September 1	6.1	8.3	11.2	7.0	11.7	3.9	12.1
September 25	36.6	39.7	31.8	33.1 ²	44.1 ²	14.1	27.4
October 18	68.9	71.7	63.0	55.9	59.0	49.2	63.5
November 1	83.3	83.7	74.3	71.2	69.6	63.4	77.7
November 14	91.2	91.2	82.3	81.8	76.0	69.0	85.3
December 1	95.8	95.8	90.9	89.6	86.0	82.4	91.9
December 13	97.7	97.5	93.9	93.6	92.0	87.5	94.4
January 1	98.8	98.6	96.4	— ³	— ³	— ³	— ³
January 16	99.2	99.2	97.8	97.7	96.1	93.5	97.8

¹ Preliminary estimates.

² Ginned to September 16.

³ No ginning report.

Estimated Quantity of Cotton Seed produced, Quantity of Cotton Seed crushed, and Quantities and Values of Crude Products obtained

Statistics of the quantity of seed produced relate to the preceding crop year. Those of the quantity crushed and of the quantities and values of products obtained relate to the year ending July 31.

Source: United States Bureau of the Census

YEAR	Cotton Seed produced (Tons)	Cotton Seed crushed (Tons)	Total Value of Products	Quantity of Oil (Gallons)	Value of Oil	Quantity of Cake and Meal (Tons)	Value of Cake and Meal	Quantity of Hulls (Tons)	Value of Hulls	Quantity of Linters (Running Bales)	Value of Linters
1913	6,104,000	4,579,508	\$132,230,000	185,750,000	\$69,100,000	1,999,000	\$45,970,000	1,540,000	\$9,710,000	602,324	\$7,450,000
1914	6,305,000	4,847,628	159,670,000	193,330,000	81,020,000	2,220,000	59,810,000	1,400,000	11,210,000	631,153	7,630,000
1915	7,186,000	5,779,665	152,880,000	229,260,000	80,540,000	2,648,000	57,740,000	1,677,000	8,450,000	832,401	6,150,000
1916	4,992,000	4,202,313	180,260,000	167,110,000	87,940,000	1,923,000	53,860,000	1,220,000	12,340,000	944,640	26,120,000
1917	5,113,000	4,479,176	287,192,000	187,688,000	153,419,000	2,225,000	74,586,000	969,000	13,994,000	1,300,163	45,193,000
1918	5,040,000	4,251,680	360,736,000	174,996,000	217,902,000	2,068,000	97,352,000	996,000	18,878,000	1,096,422	26,604,000
1919	5,360,000	4,478,508	383,580,000	176,711,000	227,316,000	2,170,000	116,119,000	1,137,000	17,917,000	910,236	22,228,000
1920	5,074,000	4,012,704	352,138,000	161,529,000	209,668,000	1,817,000	119,039,000	1,143,000	11,095,000	595,093	12,336,000
1921	5,971,000	4,069,166	156,513,000	174,558,000	84,650,000	1,786,000	58,298,000	1,256,000	10,059,000	429,005	3,506,000
1922	3,531,000	3,007,717	136,974,000	124,063,000	71,508,000	1,355,000	49,898,000	937,000	8,949,000	382,375	6,619,000
1923	4,336,000	3,241,557	173,254,000	133,723,000	84,818,000	1,487,000	59,037,000	944,000	12,200,000	590,537	17,199,000
1924	4,502,000	3,307,598	182,137,000	130,616,000	88,093,000	1,518,000	59,300,000	941,000	12,737,000	639,540	22,007,000
1925	6,051,000	4,605,227	240,855,000	187,170,824	126,665,000	2,125,618	79,173,000	1,330,764	13,749,000	857,962	21,268,000
1926	7,150,000	5,558,243	256,027,000	215,601,963	138,652,000	2,596,715	81,508,000	1,547,351	12,649,000	1,044,495	23,219,000
1927	7,989,000	6,305,775	240,284,000	251,721,354	142,242,000	2,840,081	72,476,000	1,854,389	8,882,000	1,041,864	16,084,000

Review of Last Seven American Cotton Crops, 1921 to 1927

1921. The 1921 cotton crop was notable, not only on account of its smallness, but also because of the unusual degree to which the government and the trade misjudged its size until after picking was practically completed. As a result of the great decline in the price of the staple during the preceding season, a determined campaign was conducted throughout the belt to reduce the acreage, and the general impression through most of the growing season was that the area planted had actually been cut by fully 25 per cent as compared with 1920. This was confirmed by the Department of Agriculture, which reported in June that the acreage was 28.4 per cent less than the year previous and aggregated only 26,519,000 acres. At the very beginning of the season, weather conditions were generally favorable, but later, during April, excessive rains and low temperatures did much damage and forced a great deal of replanting. May was more propitious, and in June the crop continued to make some progress, but on the whole the crop was in a very unsatisfactory condition at the end of June. Usually a low condition in one section of the belt is offset by fair to good conditions elsewhere, but in 1921 the condition at the close of June was low in almost all sections. In July the crop continued to lose ground slowly, and in August it deteriorated rapidly, largely due to an extensive drought in Texas, Oklahoma and Louisiana, excessive rains in some parts of the belt east of the Mississippi, and extraordinary ravages by the boll weevil. The result of all these adverse factors was that the government announced in September that the condition as of August 25 warranted a forecast of only 7,037,000 bales, and in October, taking the condition of September 25 as a basis, it predicted a crop of only 6,537,000 bales. These estimates, however, proved to be unduly low, not so much because of underestimating the yield per acre as because, as it was afterward shown, the acreage itself had been greatly understated. In December the Department announced that it was obliged, by information that it had received during the latter part of the season, to raise its estimate of the acreage from 26,519,000 to 31,678,000 acres. Only 30,509,000 acres were harvested, yielding 124.5 per acre. The crop totalled only 7,977,778 running bales exclusive of linters, and was the smallest in size since 1895. Linters aggregated 382,375 bales, making the total crop, including linters, 8,360,153.

1922. The boll weevil held the centre of the stage during 1922. It was hoped that after the small 1921 crop, 1922 would bring a pre-war normal, or at least one around 12,000,000 bales, but on June 25 the government forecast of 11,065,000 bales and 34,016,000 acres, and a

month later of 11,449,000 bales dampened this somewhat. The season, however, was late, and heavy rains and low temperatures kept the crop back. Replanting was necessary in many instances and caused the weevil to be even more formidable as the advantage to be gained by an early start was lost. Drought in the Western States which mitigated against the pest also affected the crop seriously, so that hopes for a fair yield per acre were soon dissipated. The critical months of July and August brought an unusual condition. Would the poorly rooted crop resulting from a wet spring be damaged by hot weather unfavorable to the weevil? The answer was a split between hot weather damage in the Southwest and the boll weevil in the East. As a result the crop estimate fell to 10,575,000 bales on August 25 and to 10,135,000 on September 25. Picking and ginning were rapid, and growers were disposed to sell just as rapidly, so the crop came on the market speedily. The December forecast of 9,964,000 caused further disappointment. Actual production amounted to 9,762,069 bales from 33,036,000 acres, or a yield of 141.5 pounds per acre.

1923. The tremendous acreage of 38,287,000 was under cultivation on June 25, as it was expected the world would readily consume a large crop after the small production of the two previous years. Unfortunately weather conditions were not propitious. A season which promised to be early turned out late. Much rain fell in the East during August, and the temperature was below normal. In the West, especially Texas and Oklahoma, a severe drought extended through July and August. The government forecast fell from 11,412,000 bales on June 25 to 10,081,000 in December. The March report of cotton ginned was 10,128,478 bales of 500 pounds each, and indicates a yield of 128.8 pounds per acre, based on 37,420,000 acres harvested. It seems weather conditions and not the boll weevil should be emphasized in discussing the 1923 crop. The weevil can be controlled, but the weather cannot. The weather, furthermore, is the supreme factor in raising cotton, and it must be acknowledged that in recent years excessive rain and drought have been to a great extent determining causes of small production.

1924. The crop of 1924 was one of surprises. The planting season was wet and cold. Many growers feared this would counteract the effects of the cold weather which had greatly reduced the number of boll weevils. May, however, proved a favorable month, and the record-breaking acreage planted (41,390,000) gave rise to hopes of a large crop.

June marked the beginning of a long drought which persisted in nearly all sections throughout the season. The crop withstood the dry weather satisfactorily as a result of the ample moisture in the soil. As

the season progressed favorable conditions caused both government and private forecasts of the crop to be increased steadily. The much-discussed semi-monthly forecasts of the Department of Agriculture were inaugurated during the season of 1924.

The fall weather proved nearly ideal for harvesting the crop, and picking and ginning were carried on at a record pace. The March ginning report shows a crop of 13,618,751 bales, the largest crop in ten years. This figure indicates a yield of 162 pounds per acre as compared with the five-year average yield of 147 pounds per acre.

The boll weevil, a factor of utmost importance in previous years, did not play an important part in 1924. The cold winter and dry summer conspired to reduce the number of weevils very materially. The small amount of weevil damage and the large acreage planted were the outstanding features of the year's cotton crop.

1925. The planting season of 1925 started favorably, and a very large acreage was planted to cotton throughout the South. In fact, the acreage planted in 1925 established a new record, the government estimate of June 25 giving a figure of 46,448,000 acres. Later developments were less favorable, however, and considerable replanting became necessary in certain sections.

In midsummer a large part of the western half of the belt began to suffer from lack of moisture. The drought which was especially serious in southern Texas was not relieved until fall, so that over a considerable area the crop was practically a failure and many fields were completely abandoned. Outside of this southwestern territory, which was affected by abnormally light rainfall, the crop progressed satisfactorily in practically all sections.

The rather hot and dry weather which prevailed during a large part of the season aided in keeping the weevil in check, so that comparatively little damage was suffered from this cause.

The large acreage planted permitted and made possible a satisfactory crop in spite of the failure of some relatively limited areas. The March ginning report indicates a crop of 16,103,586 bales, the largest in ten years. One outstanding feature of the year's growth was the very large quantities of low grades produced, especially in some sections where replanting had made the crop late.

1926. The cotton crop of 1926 was the largest in history. The March ginning report shows a total of 17,687,607 bales, or approximately one and one-half million bales more than the previous high. This figure may be increased slightly, as picking was still going on at the time of the ginning report.

The growing season of 1926 was one of contradictions. Due to weather conditions the crop as a whole was from one to three weeks

late, and throughout June, July and August there were alternate reports of too much or too little rain.

A new pest, the cotton flea or hopper, at one time was thought to be a serious menace, but did not prove to be. The army worm infested a large area in Texas and was thought to have done irretrievable damage, but the stripping of the leaves from the plants apparently helped the crop by letting the sun through on to the lower bolls so that there was a very uniform maturity with a comparatively high yield.

A large crop was indicated in the government report of June 25 with 48,898,000 acres in cultivation. The early season reports predicted a crop of from fifteen to fifteen and one-half million bales, and as late as the last of September private reports averaged around fourteen and three-fourths million bales.

The reported insect damage and unfavorable weather in addition to the light ginnings up to the last of September seemed to substantiate the private reports. It was not until the October 18 Bureau report, when the estimate jumped to 17,454,000 bales, that the real size of the crop was apparent.

Sledge cotton became an appreciable factor for the first time, and large quantities of cotton, too low in grade to be tenderable on contract, resulted. The crop as a whole was low grade due to the weather conditions but was unusually free from tinges and stains due to the late frost. One of the unusual features of the season was the inauguration by the Bureau of a high, low, and average estimate in the cotton crop reports.

1927. It was apparent early in the season that the 1927 cotton crop would be materially less than the record-breaking crop of 1926. The early private estimates of the acreage varied considerably, and it was not until the government report of July 9 of 42,683,000 acres, a decrease of about 6,000,000 acres from the previous year, that there was a real basis on which to base estimates.

The government estimates showed little variation throughout the entire crop-reporting season, varying less than a million bales from the first estimate of 13,492,000 bales as of August 1 to the last estimate of 12,784,000 as of December 1. Probably no crop estimates have been more nearly accurate throughout the season than the government estimates of 1927, the final ginning report of March 20 showing a yield of 12,777,505 bales. The private estimates tended to be higher than the government estimates throughout the season.

The devastating flood of the Mississippi River, coming as it did at the planting season, caused much uncertainty in the amount of land available for staple cotton.

Planting over a large part of the area followed immediately after the

recession of the flood, but because of the lateness of the planting it was reported that some growers substituted short staple, early maturing seed in place of the usual seed.

The crop from the flooded area was approximately one and one-half million bales less than the previous season.

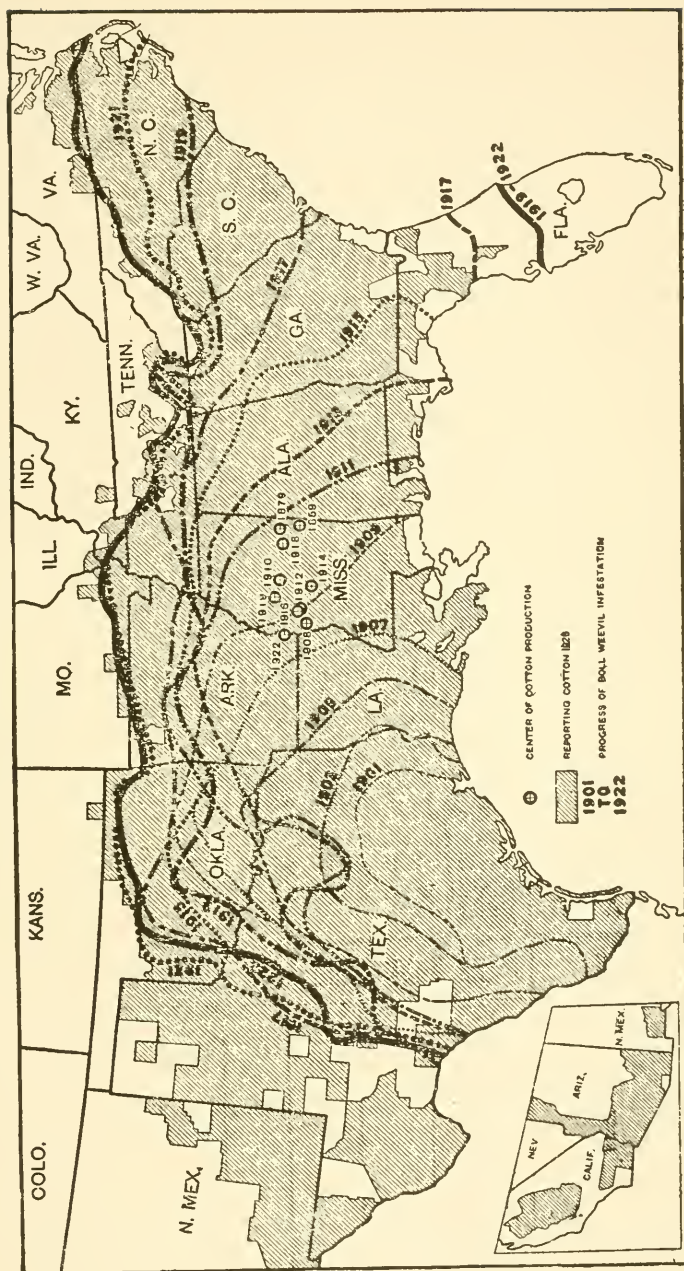
Heavy weevil infestation was reported particularly in the eastern part of the Belt. Weevil damage, however, was not as severe as in some of the previous seasons.

The average grade of the crop was high, and as a result the low grades brought a relatively higher price than in 1926, when the large crop of low-grade cotton depressed the price of the low grades.

One of the unusual incidents of the season was the publishing of a report by the Department of Agriculture in September that the level of cotton price was too high, and predicting that there probably would be a drop in the price of cotton. This prediction caused an immediate drop in the price.

The Department of Agriculture again changed its method of reporting, confining itself to monthly estimates from August to December, inclusive, doing away with the estimates of high, low and average of the previous year.

The American Cotton Belt



World's Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	51	51	18	18	—	—	150	150
	13	111	162	82	100	155	155	180	330
	20	97	259	155	255	172	327	172	502
	27	96	355	105	360	161	488	194	696
September	3	114	469	135	495	147	635	236	932
	10	164	633	155	650	241	876	220	1,152
	17	159	792	178	828	241	1,117	253	1,405
	24	184	976	193	1,021	299	1,416	274	1,679
October	1	235	1,211	201	1,222	288	1,704	338	2,017
	8	302	1,513	304	1,526	290	1,994	377	2,394
	15	354	1,867	306	1,832	347	2,341	455	2,849
	22	361	2,228	359	2,191	420	2,761	451	3,300
	29	388	2,616	367	2,558	465	3,226	451	3,751
November	5	327	2,943	365	2,923	472	3,698	425	4,176
	12	341	3,284	348	3,271	463	4,161	459	4,635
	19	384	3,668	398	3,669	420	4,581	441	5,076
	26	394	4,062	511	4,180	457	5,038	466	5,542
December	3	358	4,420	429	4,609	414	5,452	476	6,018
	10	331	4,751	425	5,034	444	5,896	460	6,478
	17	320	5,071	419	5,453	515	6,411	445	6,923
	24	294	5,365	367	5,820	405	6,816	430	7,353
	31	272	5,637	348	6,168	385	7,201	399	7,752
January	7	258	5,895	338	6,506	371	7,572	352	8,104
	14	289	6,184	409	6,915	359	7,931	352	8,456
	21	289	6,473	423	7,338	354	8,285	389	8,849
	28	239	6,712	309	7,647	324	8,609	409	9,254
February	4	295	7,007	357	8,004	349	8,958	448	9,702
	11	232	7,239	396	8,400	340	9,298	481	10,183
	18	226	7,465	344	8,744	298	9,596	417	10,600
	25	214	7,679	386	9,130	322	9,918	376	10,976
March	4	200	7,879	320	9,450	278	10,196	430	11,406
	11	176	8,055	350	9,800	308	10,504	426	11,832
	18	223	8,278	350	10,150	293	10,797	432	12,264
	25	155	8,433	378	10,528	284	11,081	407	12,671
April	1	173	8,606	356	10,884	265	11,346	335	13,006
	8	192	8,798	320	11,204	241	11,587	304	13,310
	15	192	8,990	247	11,451	253	11,840	333	13,643
	22	177	9,167	220	11,671	218	12,058	274	13,917
	29	193	9,360	214	11,885	238	12,296	368	14,285
May	6	160	9,520	283	12,168	266	12,562	415	14,700
	13	178	9,698	242	12,410	181	12,743	374	15,074
	20	194	9,892	265	12,675	165	12,908	317	15,391
	27	157	10,049	237	12,912	252	13,160	266	15,657
June	3	137	10,186	203	13,115	181	13,341	288	15,945
	10	141	10,327	198	13,313	228	13,569	250	16,195
	17	54	10,381	203	13,516	212	13,781	333	16,528
	24	100	10,481	194	13,710	188	13,969	344	16,872
July	1	129	10,610	165	13,875	183	14,152	274	17,146
	8	114	10,724	150	14,025	200	14,352	296	17,442
	15	128	10,852	180	14,205	140	14,492	186	17,628
	22	94	10,946	157	14,362	187	14,679	216	17,844
	29	113	11,059	171	14,533	189	14,868	284	18,128
	30	85	11,144	236	14,769	215	15,083	69	18,197

American (including Canadian) Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	31	31	8	8	52	52	63	63
	13	46	77	43	51	64	116	92	155
	20	43	120	41	92	60	176	74	229
	27	36	156	60	152	63	239	67	296
September	3	48	204	52	204	154	393	102	398
	10	101	305	88	292	153	546	117	515
	17	105	410	86	378	173	719	160	675
	24	118	528	118	496	182	901	172	847
October	1	128	656	118	614	166	1,067	174	1,021
	8	184	840	161	775	189	1,256	222	1,243
	15	199	1,039	167	942	263	1,519	237	1,580
	22	249	1,288	188	1,130	282	1,801	246	1,826
	29	243	1,531	199	1,329	281	2,082	258	2,084
November	5	193	1,724	230	1,559	219	2,301	238	2,322
	12	210	1,934	194	1,753	242	2,543	240	2,562
	19	236	2,170	227	1,980	231	2,774	229	2,791
	26	240	2,410	233	2,213	204	2,978	233	3,024
December	3	248	2,658	256	2,469	261	3,239	234	3,258
	10	180	2,838	229	2,698	269	3,508	236	3,494
	17	169	3,007	208	2,906	200	3,708	221	3,715
	24	181	3,188	191	3,097	176	3,884	209	3,924
	31	147	3,335	165	3,262	192	4,076	197	4,121
January	7	132	3,467	193	3,455	189	4,265	165	4,286
	14	156	3,623	188	3,643	171	4,436	183	4,469
	21	142	3,765	207	3,850	134	4,570	165	4,634
	28	130	3,895	156	4,006	128	4,698	162	4,796
February	4	134	4,029	161	4,167	175	4,873	200	4,996
	11	132	4,161	190	4,357	172	5,045	197	5,193
	18	118	4,279	169	4,526	135	5,180	174	5,367
	25	97	4,376	171	4,697	122	5,302	156	5,523
March	4	96	4,472	159	4,856	135	5,437	194	5,717
	11	82	4,554	173	5,029	136	5,573	176	5,893
	18	83	4,637	165	5,194	126	5,699	181	6,074
	25	83	4,720	170	5,364	123	5,822	162	6,232
April	1	79	4,799	171	5,535	120	5,942	128	6,364
	8	83	4,882	118	5,653	121	6,063	119	6,483
	15	64	4,946	100	5,753	102	6,165	110	6,593
	22	67	5,013	109	5,862	94	6,259	133	6,726
	29	68	5,081	95	5,957	90	6,349	142	6,868
May	6	62	5,143	105	6,062	83	6,432	152	7,020
	13	60	5,203	100	6,162	76	6,508	148	7,168
	20	57	5,260	85	6,247	78	6,586	128	7,296
	27	56	5,316	79	6,326	86	6,672	103	7,399
June	3	46	5,362	74	6,400	101	6,773	116	7,515
	10	29	5,391	75	6,475	100	6,873	116	7,631
	17	28	5,419	74	6,549	79	6,952	124	7,655
	24	28	5,447	64	6,613	68	7,020	130	7,785
July	1	31	5,478	59	6,672	79	7,099	108	7,893
	8	35	5,513	45	6,717	56	7,155	108	8,001
	15	31	5,544	38	6,755	83	7,238	91	8,092
	22	30	5,574	53	6,808	82	7,320	92	8,184
	29	31	5,605	63	6,871	69	7,399	101	8,285
	30	20	5,625	71	6,942	28	7,417	48	8,333

Movement of American Crop into Sight during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	31	31	6	6	—	—	55	55
	13	61	92	52	58	82	82	99	154
	20	89	181	64	122	112	194	113	267
	27	133	314	79	201	175	369	135	402
September	3	209	523	177	378	278	647	256	658
	10	271	794	268	646	475	1,122	298	956
	17	317	1,111	365	1,011	517	1,639	504	1,460
	24	424	1,535	481	1,492	629	2,268	634	2,094
October	1	456	1,991	516	2,008	710	2,978	847	2,941
	8	565	2,556	588	2,596	735	3,713	940	3,881
	15	580	3,136	647	3,243	721	4,434	933	4,814
	22	614	3,750	741	3,984	788	5,522	918	5,732
	29	597	4,347	685	4,669	771	5,993	853	6,585
November	5	518	4,865	723	5,392	763	6,756	823	7,408
	12	475	5,340	664	6,056	692	7,448	804	8,212
	19	512	5,825	684	6,740	621	8,069	799	9,011
	26	501	6,353	720	7,460	622	8,691	736	9,747
December	3	491	6,844	660	8,120	608	9,299	741	10,488
	10	387	7,231	629	8,749	649	9,948	685	11,173
	17	368	7,599	493	9,242	624	10,572	614	11,787
	24	301	7,900	506	9,748	528	11,100	522	12,309
	31	302	8,202	406	10,154	459	11,559	496	12,805
January	7	219	8,421	422	10,576	409	11,968	349	13,154
	14	234	8,655	366	10,942	303	12,271	389	13,543
	21	230	8,885	378	11,313 ¹	264	12,535	414	13,957
	28	195	9,080	268	11,581	277	12,812	360	14,317
February	4	185	9,265	258	11,839	247	13,059	343	14,660
	11	161	9,426	263	12,102	250	13,309	337	14,997
	18	152	9,578	297	12,399	244	13,553	303	15,300
	25	118	9,696	257	12,656	241	13,794	328	15,628
March	4	103	9,799	233	12,889	184	13,978	320	15,948
	11	80	9,879	240	13,129	174	14,152	326	16,274
	18	81	9,960	224	13,353	166	14,318	310	16,584
	25	90	10,050	215	13,568	158	14,476	283	16,867
April	1	81	10,131	176	13,744	172	14,648	229	17,096
	8	78	10,209	100	13,844	146	14,794	177	17,273
	15	84	10,293	95	13,939	135	14,929	187	17,460
	22	83	10,376	83	14,022	128	15,057	185	17,645
	29	78	10,454	94	14,116	114	15,171	173	17,818
May	6	78	10,532	82	14,198	125	15,296	202	18,020
	13	72	10,604	85	14,283	99	15,395	173	18,193
	20	73	10,677	60	14,343	99	15,494	138	18,331
	27	74	10,751	59	14,402	81	15,575	98	18,429
June	3	70	10,821	65	14,467	87	15,662	107	18,536
	10	55	10,876	66	14,533	86	15,748	105	18,641
	17	40	10,916	54	14,587	85	15,833	108	18,749
	24	49	10,965	48	14,635	84	15,917	105	18,854
July	1	43	11,008	46	14,681	66	15,983	85	18,939
	8	46	11,054	30	14,711	63	16,046	90	19,029
	15	41	11,095	31	14,742	44	16,090	65	19,094
	22	45	11,140	58	14,800	59	16,149	84	19,178
	29	46	11,186	64	14,864	58	16,207	90	19,268
	30	40	11,226	78	14,942	51	16,258	31	19,299

¹ 7,000 bales burned.

Monthly Movement of Cotton into Sight

[Running bales, linters included]

Source: New York Cotton Exchange

	1923-24	1924-25	1925-26	1926-27
August	523,137	421,375	793,736	559,417
September	1,543,717	1,934,838	2,737,508	2,246,841
October	2,638,665	3,035,433	3,348,139	3,910,431
November	2,138,035	2,853,939	2,672,223	3,456,639
December	1,445,279	2,261,434	2,352,759	2,632,341
January	935,395	1,377,691	1,192,761	1,617,677
February	574,369	1,046,591	913,099	1,295,808
March	369,007	891,552	736,783	1,336,700
April	355,314	399,238	548,682	808,713
May	310,818	263,397	401,927	612,073
June	207,107	221,987	335,030	439,794
July	190,342	240,903	255,795	381,420
	11,226,185	14,948,278	16,288,442	19,297,854
Burned	—	6,604	—	—
Total into sight	11,226,185	14,941,674	16,288,442	19,297,854
Add	96,016 ¹	21,259 ¹	—	426,109
Deduct	—	—	632,971 ²	—
Total crop	11,322,201	14,962,933	15,655,471	19,723,963

¹ Decrease of stock at interior towns under previous year.

² Excess of stock at interior towns over previous year.

Percentage of Loss of Cotton due to Boll Weevil, 1913-26

[Expressed in percentage of a normal or full yield per acre]

Source: United States Department of Agriculture

STATE	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
North Carolina	-	-	-	-	-	-	-	-	3.58	12.27	12.97	7.49	8.04	3.24
South Carolina	-	-	.02	.02	.01	.07	3.00	13.26	31.48	40.48	26.95	15.93	11.71	4.27
Georgia	.10	-	.28	3.44	9.06	10.73	19.36	30.56	45.12	44.28	36.62	15.11	6.68	5.09
Florida	11.80	-	13.14	20.98	27.07	23.85	40.46	32.10	27.62	32.50	32.53	27.73	6.43	-
Tennessee	.10	.08	.04	1.23	1.74	.37	.17	.57	7.21	8.84	20.75	2.38	.31	1.57
Alabama	4.80	6.02	16.16	27.91	28.88	12.14	28.77	36.03	32.39	25.51	32.52	11.77	4.88	3.16
Mississippi	33.90	24.14	24.68	31.73	22.22	10.41	19.56	32.25	30.38	27.65	30.82	7.38	2.99	6.26
Louisiana	25.10	17.66	19.85	24.31	11.89	9.79	24.84	25.99	34.80	24.61	23.25	4.59	9.52	8.52
Texas	6.80	7.86	16.28	18.53	7.26	4.43	13.96	19.90	33.66	16.25	9.96	7.63	2.35	11.09
Oklahoma	.40	.79	2.70	3.70	4.35	1.30	1.48	8.81	41.36	25.67	19.33	3.93	1.83	8.49
Arkansas	2.80	2.93	4.60	7.49	8.96	3.14	4.79	9.41	21.84	18.15	15.87	3.70	1.80	2.94
United States average ¹	6.69	5.91	9.93	13.36	9.34	5.83	13.20	19.95	30.98	24.17	19.55	8.01	3.87	7.04

¹ Average is weighted and includes cotton States in which there was no damage by boll weevil.

Indian Cotton Production

These statistics embrace all cotton produced in India, including that used in house manufacture as well as that taken by factories or exported.

[In bales of 400 pounds each]

Source: Department of Commercial Intelligence and Statistics, India

PROVINCES AND STATES	1923-24	1924-25	1925-26	1926-27	1927-28 ¹
Bombay ²	1,212,000	1,589,000	1,566,000	1,267,000	1,431,000
Central Provinces and Berar	1,020,000	1,000,000	980,000	977,000	1,145,000
Madras ²	484,000	567,000	569,000	388,000	391,000
Punjab ²	630,000	910,000	908,000	599,000	605,000
United Provinces ²	213,000	276,000	277,000	259,000	200,000
Sind ²	— ³	— ³	— ³	— ³	— ³
Burma	46,000	70,000	83,000	73,000	67,000
Bengal ²	21,000	24,000	26,000	25,000	20,000
Bihar and Orissa	16,000	14,000	15,000	14,000	14,000
North-West Frontier	5,000	8,000	7,000	5,000	2,000
Assam	14,000	15,000	13,000	15,000	15,000
Delhi	1,000	1,000	1,000	1,000	1,000
Ajmer-Merwara	13,000	15,000	17,000	15,000	14,000
Hyderabad	1,079,000	899,000	1,060,000	808,000	951,000
Central India	162,000	259,000	270,000	223,000	247,000
Baroda	76,000	171,000	189,000	124,000	127,000
Rajputana	73,000	89,000	93,000	78,000	110,000
Mysore	15,000	36,000	25,000	25,000	25,000
Gwalior	60,000	145,000	116,000	107,000	115,000
Total	5,140,000	6,088,000	6,215,000	5,003,000	5,480,000

¹ February, 1928, estimate.

² Includes Indian States.

³ Included in Bombay.

Indian Cotton Yield per Acre

[In pounds]

Source: Department of Commercial Intelligence and Statistics, India.

PROVINCES AND STATES	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28 ¹
Bombay ²	96	90	71	82	77	75	83
Central Provinces and Berar	102	102	83	81	73	80	94
Madras ²	79	75	73	78	78	70	80
Punjab ²	93	115	131	141	119	85	117
United Provinces ²	119	108	130	105	110	128	124
Sind ²	145	172	— ³	— ³	— ³	— ³	— ³
Burma	52	66	61	86	72	65	78
Bengal ²	91	94	118	125	147	130	103
Bihar and Orissa	75	75	79	71	73	71	73
North-West Frontier	80	80	87	82	87	67	73
Assam	113	130	144	133	111	130	133
Delhi	80	152	133	100	67	100	200
Ajmer-Merwara	185	167	127	133	126	140	133
Hyderabad	119	117	123	105	112	99	105
Central India	70	97	66	71	79	69	78
Baroda	57	80	46	104	87	65	63
Rajputana	92	101	88	87	91	77	104
Mysore	102	116	71	122	120	103	123
Gwalior	—	—	48	54	71	66	79
Average	97	98	87	91	88	81	92

¹ February, 1928, estimate.

² Includes Indian States.

³ Included in Bombay.

Indian Cotton Acreage

Source: Department of Commercial Intelligence and Statistics, India

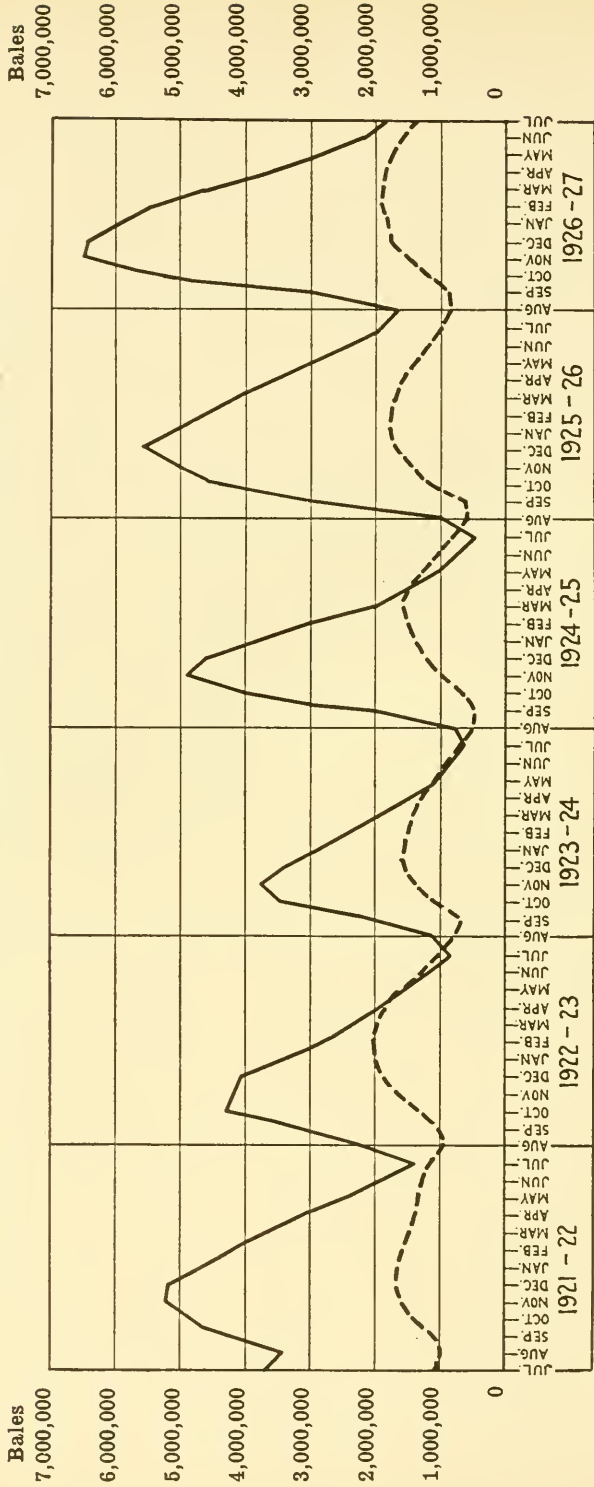
PROVINCES AND STATES	1923-24	1924-25	1925-26	1926-27	1927-28 ¹
Bombay ²	6,788,000	7,713,000	8,117,000	6,768,000	6,912,000
Central Provinces and Berar	4,933,000	5,247,000	5,385,000	4,864,000	4,848,000
Madras ²	2,663,000	2,903,000	2,921,000	2,231,000	1,946,000
Punjab ²	1,927,000	2,589,000	3,052,000	2,803,000	2,074,000
United Provinces ²	654,000	1,049,000	1,004,000	809,000	647,000
Sind ²	— ³	— ³	— ³	— ³	— ³
Burma	301,000	352,000	464,000	447,000	342,000
Bengal ²	71,000	77,000	78,000	77,000	78,000
Bihar and Orissa	81,000	79,000	82,000	79,000	77,000
North-West Frontier	23,000	39,000	32,000	30,000	11,000
Assam	39,000	45,000	47,000	46,000	45,000
Delhi	3,000	4,000	6,000	4,000	2,000
Ajmer-Merwara	41,000	45,000	54,000	43,000	42,000
Hyderabad	3,500,000	3,412,000	3,781,000	3,267,000	3,631,000
Central India	982,000	1,354,000	1,369,000	1,297,000	1,263,000
Baroda	657,000	658,000	866,000	761,000	806,000
Rajputana	330,000	418,000	411,000	404,000	422,000
Mysore	84,000	118,000	83,000	97,000	81,000
Gwalior	500,000	699,000	651,000	649,000	585,000
Total	23,577,000	26,801,000	28,403,000	24,676,000	23,812,000

¹ February, 1928, estimate.

² Includes Indian States.

³ Included in Bombay.

United States Stocks of Cotton in Consuming Establishments and in Public Storage



The above chart is based on the table on the following page.

— In public storage and at compresses
--- In consuming establishments

United States Stocks of Cotton in Consuming Establishments, in Public Storage and at Compresses

[American cotton is counted in running bales; foreign cotton, in equivalent 500-pound bales]

Linters are not included

The table below does not include cotton in transit, in private storage or on plantations. It embraces merely the cotton in consuming establishments, in public storage and at compresses, as compiled monthly by the United States Bureau of the Census.

At End of —	1921-22		1922-23		1923-24		1924-25		1925-26		1926-27	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses
August	1,006,066	3,463,964	1,024,874	1,530,141	810,511	1,172,287	552,669	810,913	680,527	1,040,178	930,944	1,715,593
September	1,118,045	4,312,135	1,065,816	3,217,939	772,632	2,147,012	514,537	2,072,956	866,011	3,137,620	937,129	3,293,217
October	1,398,138	4,984,831	1,381,945	4,287,119	1,106,347	3,485,005	730,656	4,221,884	1,216,437	4,499,382	1,215,873	5,469,809
November	1,635,359	5,292,941	1,724,488	4,197,955	1,444,474	3,769,204	1,016,612	4,914,219	1,456,166	5,206,283	1,497,844	6,517,565
December	1,738,138	5,206,663	1,917,231	4,069,470	1,627,628	3,512,577	1,319,265	4,623,863	1,717,972	5,608,066	1,766,392	6,478,998
January	1,668,668	4,621,708	1,988,115	3,485,952	1,637,824	2,963,983	1,433,814	3,863,475	1,811,392	5,175,834	1,852,987	6,070,030
February	1,595,242	4,214,862	2,020,900	2,803,304	1,583,439	2,497,075	1,546,210	3,075,140	1,831,296	4,741,090	1,933,077	5,443,820
March	1,557,023	3,752,258	2,033,837	2,379,697	1,498,266	1,983,544	1,633,783	2,028,331	1,767,686	4,162,628	1,980,103	4,491,955
April	1,461,340	3,213,483	1,878,198	1,965,714	1,328,273	1,512,086	1,514,514	1,666,147	1,639,174	3,530,811	1,894,993	3,676,083
May	1,420,428	2,559,451	1,634,167	1,580,219	1,157,778	1,126,711	1,348,304	1,134,920	1,449,932	2,964,824	1,794,284	2,868,947
June	1,330,903	1,953,478	1,347,468	1,227,184	950,625	882,204	1,123,813	759,945	1,267,796	2,407,816	1,607,676	2,164,108
July	1,218,388	1,488,165	1,093,618	938,903	719,827	673,934	866,259	514,196	1,096,521	1,936,662	1,404,358	1,822,671

United States Stocks of Cotton and Linters

[American cotton in running bales, counting round as half bales; foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

At End of —	TOTAL COTTON EXCLUSIVE OF LINTERS		LINTERS		SEA ISLAND		EGYPTIAN	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage
August, 1926	920,944	1,715,593	123,255	38,132	—	—	60,869	17,651
September, 1926	937,129	3,293,217	100,058	38,488	—	—	52,587	11,806
October, 1926	1,215,873	5,469,809	99,318	42,868	—	—	40,270	7,383
November, 1926	1,497,844	6,517,565	117,915	52,913	—	—	36,068	7,458
December, 1926	1,766,392	6,478,998	137,743	57,588	—	—	36,904	13,065
January, 1927	1,852,987	6,070,020	161,724	57,876	—	—	48,402	16,427
February, 1927	1,832,655	5,443,820	195,106	71,988	—	—	48,825	14,393
March, 1927	1,980,103	4,491,955	226,987	79,140	—	—	55,424	13,445
April, 1927	1,894,993	3,676,083	229,240	71,803	—	—	52,612	17,366
May, 1927	1,794,284	2,868,947	225,417	68,032	—	—	56,445	13,370
June, 1927	1,607,676	2,164,108	217,285	58,784	—	—	57,726	14,721
July, 1927	1,404,358	1,822,671	199,050	52,831	—	—	58,881	13,287
Season ending —								
July, 1926	1,096,647	1,935,913	143,630	52,899	—	—	64,437	28,510
July, 1925	865,842	514,006	128,916	28,698	2,703	501	50,475	11,526
July, 1924	721,589	673,925	100,632	54,026	2,465	2,038	51,055	12,586
July, 1923	1,093,618	938,903	127,139	36,000	2,947	3,969	86,508	51,316
July, 1922	1,218,388	1,488,165	138,523	54,587	3,787	3,303	62,863	53,427
July, 1921	1,111,147	3,723,213	201,353	234,926	4,489	6,126	68,914	59,148
July, 1920	1,358,147	2,055,015	277,218	382,432	14,654	9,791	117,300	102,799
July, 1919	1,303,418	2,208,367	266,539	227,358	19,487	31,538	36,858	15,899
July, 1918	1,465,223	1,734,965	138,108	236,809	20,000	36,494	35,917	31,363
July, 1917	1,501,916	888,257	112,972	230,687	36,482	19,912	75,250	42,662
July, 1916	1,632,245	1,107,464	100,441	113,106	37,454	10,870	123,406	59,202
July, 1915	1,401,185	1,784,919	198,905	89,881	24,919	4,678	96,828	25,123
August, 1914	675,873	546,944	75,346	29,673	21,028	7,453	52,413	6,205
August, 1913	717,704	467,902	60,454	27,378	19,896	Not available	74,518	1,876

Carry-over of Cotton

The term "carry-over" has several meanings. It may refer (1) simply to cotton held in the United States, or (2) American cotton held anywhere in the world, or (3) all kinds of cotton held anywhere in the world. Statistics of carry-over as issued by trade authorities differ widely from each other each year, not only because of the various meanings of the term, as just stated, but also because some authorities count the carry-over in running bales, disregarding the fact that Egyptian bales, for example, weigh approximately 750 pounds and Indian bales only 400, while others compute the quantities of foreign cottons in equivalent 500-pound bales, and some authorities include American linters while others do not.

Following are statistics of the amount of cotton carried over from each season for several years past, as computed, on different bases, by leading authorities.

World Carry-over of American Cotton

The table below was compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange. It includes all American cotton held in the American cotton belt, — *i.e.*, at southern mills, at counted and uncounted interior towns, and on plantations, — stocks at northern mills and at the ports of the United States, and stocks at European ports and at European mills. This embraces practically all American cotton held anywhere in the world. The only stocks not included in this table are those in Japan and scattering stocks in the less important manufacturing countries where some American cotton may be found, such as Canada and Mexico. The cotton is counted in running bales, round bales being counted as half bales.

DATE	Including Linters	Exclusive of Linters
July 31, 1927	7,238,000	6,952,000
July 31, 1926	5,639,000	5,378,000
July 31, 1925	2,991,000	2,826,000
July 31, 1924	2,319,000	2,039,000
July 31, 1923	2,573,000	2,396,000
July 31, 1922	4,879,000	4,547,000
July 31, 1921	9,364,000	8,699,000
July 31, 1920	6,216,000	5,216,000
July 31, 1919	6,909,000	6,094,000
July 31, 1918	4,422,000	4,018,000
July 31, 1917	4,305,000	3,688,000
July 31, 1916	5,105,000	4,742,000
July 31, 1915	7,701,000	7,551,000
August 31, 1914	4,564,000	4,399,000

Supply and Distribution of Cotton in the United States for the Twelve Months ending July 31, 1927

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton and domestic cotton, reimported, in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

		SUPPLY	Bales
On hand August 1, 1926, total			3,542,560
In consuming establishments, total		1,096,647	
In cotton-growing States	624,345		
In all other States	472,302		
In public storage and at compresses		1,935,913	
In cotton-growing States	1,708,461		
In all other States	227,452		
Elsewhere (partially estimated) ¹		510,000	
Imports foreign cotton, total		400,983	
Re-exported		18,834	
Net imports			382,149
Ginnings, crop of 1926, total		17,755,070	
Prior to August 1, 1926		47,770	
During cotton year 1926-27			17,707,300
Ginnings, crop of 1927 prior to August 1			162,506
Aggregate supply			21,794,515
		DISTRIBUTION	
Exports domestic cotton, total		10,926,614	
Reimported		9,764	
Net exports			10,916,850
Consumed, total			7,189,585
In cotton-growing States		5,193,500	
In all other States		1,996,085	
Destroyed			70,000
On hand July 31, 1927, total			3,762,367
In consuming establishments, total		1,404,815	
In cotton-growing States	882,427		
In all other States	522,388		
In public storage and at compresses		1,822,552	
In cotton-growing States	1,498,453		
In all other States	324,099		
Elsewhere (partially estimated) ¹		535,000	
Aggregate distribution			21,938,802
Excess of distribution over supply ²			144,287

¹ Includes cotton for export on shipboard but not cleared; cotton coastwise; cotton in transit to ports, interior towns, and mills; cotton on farms, etc.

² Due principally to the inclusion in all distribution items of the "city crop," which consists of rebaled samples and pickings from cotton damaged by fire and weather.

Mid-Season Stocks of All Cottons in the World

Source: Garside Cotton Service

[American cotton in running bales; foreign cotton in equivalent bales of 478 pounds net weight; American linters not included]

	MID-SEASON STOCKS OF ALL COTTONS				
	Jan. 31, 1923	Jan. 31, 1924	Jan. 31, 1925	Jan. 31, 1926	Jan. 31, 1927
In public storage, etc.:					
Farms, etc., in United States	1,330,000	1,108,000	1,823,000	2,252,000	3,487,000
Public storage in United States . .	3,483,000	2,958,000	3,861,000	5,176,000	6,155,000
Unmarketed Foreign Crops ¹	4,107,000	4,364,000	5,509,000	5,614,000	4,973,000
Alexandria	461,000	368,000	377,000	453,000	654,000
Bombay	472,000	326,000	330,000	377,000	412,000
Afloat to Europe . .	624,000	745,000	813,000	589,000	893,000
Ports in Europe . .	1,473,000	1,312,000	1,649,000	1,613,000	2,574,000
Elsewhere ²	522,000	619,000	771,000	749,000	1,029,000
Total	12,472,000	11,800,000	15,133,000	16,823,000	20,177,000
In Mills:					
United States	1,989,000	1,632,000	1,441,000	1,814,000	1,853,000
Great Britain	289,000	278,000	256,000	285,000	249,000
Continent	748,000	758,000	931,000	1,095,000	1,099,000
Elsewhere	1,474,000	1,154,000	1,096,000	1,090,000	1,097,000
Total	4,500,000	3,822,000	3,724,000	4,284,000	4,298,000
Grand Total . .	16,972,000	15,622,000	18,857,000	21,107,000	24,475,000

¹ Includes stocks in interior of India and Egypt, and estimated unpicked or unmarketed portions of crops of India, Russia, Brazil, China, and minor cotton-producing countries.

² Includes cotton afloat to and in warehouses in the Orient.

Carry-over Stocks of All Cottons in the World

Source: Garside Cotton Service

[American cotton in running bales; foreign cottons in equivalent bales of 478 pounds net weight;
American linters not included]

	CARRY-OVER OF ALL COTTONS				
	July 31, 1923	July 31, 1924	July 31, 1925	July 31, 1926	July 31, 1927
In public storage, etc.:					
Farms, etc., in United States	280,000	160,000	230,000	510,000	535,000
Public storage in United States	940,000	673,000	506,000	1,929,000	1,820,000
Alexandria	204,000	76,000	82,000	309,000	479,000
Bombay	258,000	323,000	338,000	282,000	293,000
Afloat to Europe	265,000	303,000	304,000	369,000	445,000
Ports, etc., in Europe	676,000	750,000	974,000	1,225,000	2,273,000
Elsewhere ¹	644,000	399,000	625,000	788,000	880,000
Total	3,267,000	2,684,000	3,059,000	5,412,000	6,725,000
In mills:					
United States	1,091,000	719,000	869,000	1,096,000	1,404,000
Great Britain	258,000	214,000	264,000	250,000	261,000
Continent	691,000	817,000	1,134,000	985,000	1,337,000
Elsewhere	1,415,000	1,357,000	1,418,000	1,537,000	1,727,000
Total	3,455,000	3,107,000	3,685,000	3,868,000	4,759,000
Grand total	6,722,000	5,791,000	6,744,000	9,280,000	11,484,000

¹ Includes cotton afloat to the Orient, in warehouses and in transit in the Orient and in transit in Europe.

Quantity of the Several Kinds of Raw Cotton consumed and of Stocks held in Consuming Establishments, 1924 to 1927

United States Bureau of the Census

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

KIND AND LOCALITY	RAW COTTON CONSUMED DURING YEAR (BALES)				STOCKS HELD IN CONSUMING ESTABLISHMENTS JULY 31 (BALES)			
	1927	1926	1925	1924	1927	1926	1925	1924
United States	7,189,585	6,455,852	6,193,417	5,680,554	1,404,815	1,096,647	865,842	721,589
Domestic:								
Upland	6,859,229	6,161,710	5,894,497	5,312,033	1,319,284	1,002,523	781,080	626,597
Sea-island	1,226	2,325	3,970	4,906	1,694	1,462	2,702	2,465
American-Egyptian .	19,669	11,740	19,018	35,998	4,237	6,387	2,849	8,988
Foreign:								
Egyptian	239,768	204,113	191,544	223,649	58,882	64,203	50,529	51,655
Peruvian	14,535	19,841	19,561	29,474	3,765	2,961	2,587	3,609
Chinese	32,043	31,378	40,185	51,472	12,435	10,434	16,258	16,250
British Indian . . .	21,985	23,736	24,573	21,848	3,445	8,088	9,832	12,001
Other	1,130	1,009	69	1,174	1,073	589	5	24
Cotton-growing States .	5,193,500	4,500,243	4,220,010	3,858,317	882,427	624,345	428,647	340,157
Domestic:								
Upland	5,129,978	4,470,274	4,186,092	3,807,305	872,080	617,273	424,027	329,236
Sea-island	162	134	92	100	169	70	28	15
American-Egyptian .	1,834	1,406	5,477	10,682	257	597	207	2,694
Foreign:								
Egyptian	42,911	16,584	19,472	27,968	5,206	3,667	1,582	4,649
Peruvian	2,019	1,701	-	-	100	409	-	-
Chinese	10,464	6,741	6,437	6,675	3,733	1,349	2,132	930
British Indian . . .	6,088	3,227	2,390	5,332	882	931	671	2,633
Other	44	176	50	255	-	49	-	-
All other States . . .	1,996,085	1,955,609	1,973,407	1,822,237	522,388	472,302	437,195	381,432
Domestic:								
Upland	1,729,251	1,691,436	1,708,405	1,504,728	447,204	385,250	357,053	297,361
Sea-island	1,064	2,191	3,878	4,806	1,525	1,392	2,674	2,450
American-Egyptian .	17,835	10,334	13,541	25,316	3,980	5,790	2,642	6,294
Foreign:								
Egyptian	196,857	187,529	172,072	195,681	53,676	60,536	48,947	47,006
Peruvian	12,516	18,140	19,561	29,474	3,665	2,552	2,587	3,609
Chinese	21,579	24,637	33,748	44,797	8,702	9,085	14,126	15,320
British Indian . . .	15,897	20,509	22,183	16,516	2,563	7,157	9,161	9,368
Other	1,086	833	19	919	1,073	540	5	24

World Supply and Consumption of American Cotton

The tables below, compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange, show the world supply and consumption of American cotton, inclusive of linters, season by season since 1914-15. In considering these statistics it should be borne in mind that they relate only to American cotton. They do not include Egyptian, Indian or other foreign growths. The figures of supply at the beginning of each season include mill stocks in the United States and Europe, stocks at counted and uncounted interior towns and on plantations in this country, and stocks at ports in this country and Europe. The statistics on consumption include consumption in this country and abroad. These statistics are in running bales.

Supply and Consumption, including Linters

COTTON SEASON, AUG. 1 TO JULY 31	Supply at Beginning of Season	Crop	Total Supply for Season	Consumption
1914-15	4,564,000	17,004,000	21,568,000	13,834,000
1915-16	7,701,000	12,175,000	19,876,000	14,812,000
1916-17	5,105,000	12,966,000	18,071,000	13,892,000
1917-18	4,305,000	12,424,000	16,729,000	12,282,000
1918-19	4,422,000	13,070,000	17,492,000	10,535,000
1919-20	6,909,000	12,000,000	18,909,000	12,670,000
1920-21	6,216,000	13,750,000	19,966,000	10,330,000
1921-22	9,364,000	8,442,000	17,806,000	12,829,000
1922-23	4,879,000	10,424,000	15,303,000	12,631,000
1923-24	2,573,000	10,985,000	13,558,000	11,241,000
1924-25	2,319,000	14,808,000	17,127,000	14,136,000
1925-26	3,268,000 ¹	17,541,000	20,809,000	15,170,000
1926-27	5,639,000	19,215,000	24,854,000	17,616,000
1927-28	7,238,000	—	—	—

¹ Includes stocks at Japan and 10,000 at European mills, 1926.

Stocks of American Cotton at United States Ports July 31

Source: New Orleans Cotton Exchange

	1923	1924	1925	1926	1927
Galveston	18,671	41,954	51,572	149,926	146,029
Houston	—	—	—	226,636	179,825
New Orleans	47,595	50,702	49,275	152,265	259,603
Mobile	850	557	1,303	3,389	4,109
Savannah	12,040	8,390	7,572	27,073	43,983
Charleston	23,870	11,933	7,319	12,698	20,878
Wilmington	5,180	1,828	7,082	7,095	4,336
Brunswick	4	1	—	—	—
Norfolk	21,000	16,000	20,000	40,000	32,000
Baltimore	500	500	500	500	500
New York	42,729	80,759	61,613	56,883	213,071
Philadelphia	3,893	3,363	3,455	4,224	5,159
Boston	4,566	4,569	1,431	4,252	2,289
Pacific ports	—	1,046	378	—	4,501
Pensacola	—	116	157	508	431
Jacksonville	2,614	1,679	8	371	585
Texas City	4	—	1	3,141	6,121
Total	183,516	223,397	211,666	688,961	923,420

Activity and Normal Operation of American Cotton Industry

Source: United States Bureau of the Census

MONTH	NORMAL DAYS OF OPERATION				PERCENTAGE OF ACTIVITY ON A SINGLE-SHIFT BASIS			
	1926-27	1925-26	1924-25	1923-24	1926-27	1925-26	1924-25	1923-24
August	26	26	26	27	87.4	80.1	63.0	85.4
September	25½	25½	25½	24½	98.5	83.8	76.4	93.6
October	25¾	26¾	26¾	26¾	98.9	89.5	86.2	95.8
November	25½	24½	24½	25¼	101.3	96.0	87.8	96.7
December	26	25	26	25	100.7	99.4	90.7	87.0
January	25½	25½	26½	26½	102.0	98.6	97.2	95.5
February	23¾	23¾	23¾	24¾	106.5	103.2	100.5	87.3
March	27	27	26	26	109.8	102.2	100.0	82.4
April	25¾	25¾	25¾	25¾	105.6	98.2	100.2	80.0
May	25½	25½	25½	26½	108.9	88.9	93.8	67.5
June	26	26	26	25	109.3	88.4	89.2	64.6
July	25¼	26	26	26	99.1	78.7	84.6	60.3

Consumption and Stocks of Cotton by Kinds

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

KIND AND LOCALITY	RAW COTTON CONSUMED DURING YEAR (BALES)				STOCKS HELD IN CONSUMING ESTABLISHMENTS JULY 31 (BALES)			
	1927	1926	1925	1924	1927	1926	1925	1924
United States	7,189,585	6,455,852	6,193,417	5,680,554	1,404,815	1,096,647	865,842	721,589
Domestic:								
Upland	6,859,229	6,161,710	5,894,497	5,312,033	1,319,284	1,002,523	781,080	626,597
Sea-island	1,226	2,325	3,970	4,906	1,694	1,462	2,702	2,465
American-Egyptian . .	19,669	11,740	19,018	35,998	4,237	6,387	2,849	8,988
Foreign:								
Egyptian	239,768	204,113	191,544	223,649	58,882	64,203	50,529	51,655
Peruvian	14,535	19,841	19,561	29,474	3,765	2,961	2,587	3,609
Chinese	32,043	31,378	40,185	51,472	12,435	10,434	16,258	16,250
British Indian	21,985	23,736	24,573	21,848	3,445	8,088	9,832	12,001
Other	1,130	1,009	69	1,174	1,073	589	5	24

Calculated Total World's Cotton Mill Consumption for the Half son, on Basis of Spinners' Returns made

COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
	AMERICAN				EAST INDIAN			
	HALF YEAR ENDING				HALF YEAR ENDING			
	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925
Europe:								
1 Great Britain	1,137	940	937	1,252	34	48	73	97
2 Germany	649	565	405	496	78	94	72	108
3 France	406	419	424	430	68	91	93	83
4 Russia	123	267	59	150	—	—	1	—
5 Italy	338	342	357	346	78	106	120	139
6 Czechoslovakia	236	172	158	189	34	32	38	64
7 Spain	151	140	144	132	26	27	41	39
8 Belgium	116	91	92	80	54	75	71	70
9 Switzerland	27	28	31	32	3	3	5	4
10 Poland	125	146	89	85	13	19	10	7
11 Austria	66	47	49	49	13	12	18	24
12 Holland	70	62	60	59	12	15	14	14
13 Sweden	46	46	44	37	1	1	1	1
14 Portugal	26	29	33	28	—	—	—	—
15 Finland	18	20	21	15	—	—	—	—
16 Denmark	10	10	9	8	—	—	—	—
17 Norway	3	3	3	4	—	—	—	—
18 Europe total	3,547	3,327	2,915	3,392	414	523	557	650
Asia:								
19 India	290	60	8	6	1,018	1,170	1,086	1,196
20 Japan	619	513	499	393	716	840	889	727
21 China	161	113	74	40	201	258	222	195
22 Asia total	1,070	686	581	439	1,935	2,268	2,197	2,118
America:								
23 U. S. A.	3,597	3,286	3,132	3,093	15	13	12	15
24 Canada	105	87	94	94	—	—	—	1
25 Mexico	—	—	4	—	—	—	—	—
26 Brazil	—	—	—	—	—	—	—	—
27 America total	3,702	3,373	3,230	3,187	15	13	12	16
28 Sundries	38	37	30	31	14	14	21	5
29 Half year totals	8,357	7,423	6,756	7,409	2,378	2,818	2,787	2,789

Year ending 31st July, 1927, with Previous Figures for Comparison to the International Cotton Federation

IN THOUSANDS OF ACTUAL BALES
(REGARDLESS OF WEIGHT)

EGYPTIAN				SUNDRIES				TOTAL				
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING				
July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	
183	186	200	198	240	242	166	125	1,594	1,416	1,376	1,672	1
36	31	19	31	13	12	5	8	776	702	501	643	2
49	51	56	48	34	64	39	28	557	625	612	589	3
43	30	24	20	490	524	821	442	656	821	905	612	4
24	25	28	28	8	11	11	11	448	484	516	524	5
14	10	10	10	2	3	1	3	286	217	207	266	6
12	11	12	7	11	12	7	3	200	190	204	181	7
2	2	2	1	12	11	12	4	184	179	177	155	8
25	21	18	19	1	—	1	—	56	52	55	55	9
6	6	3	3	1	3	3	6	145	174	105	101	10
2	1	1	1	1	4	2	1	82	64	70	75	11
—	—	—	—	1	2	2	1	83	79	76	74	12
—	—	—	1	1	—	—	—	48	47	45	39	13
—	—	—	—	4	13	11	16	30	42	44	44	14
—	—	—	—	—	—	—	—	18	20	21	15	15
—	—	—	—	1	—	—	—	11	10	9	8	16
—	—	—	—	—	—	—	—	3	3	3	4	17
396	374	373	367	820	901	1,081	648	5,177	5,125	4,926	5,057	18
1	3	5	4	30	29	23	27	1,339	1,262	1,122	1,233	19
23	23	19	19	50	67	65	139	1,408	1,443	1,472	1,278	20
—	1	—	—	558	628	549	609	920	1,000	845	844	21
24	27	24	23	638	724	637	775	3,667	3,705	3,439	3,355	22
85	74	71	71	35	29	29	30	3,732	3,402	3,244	3,209	23
5	4	3	—	—	—	—	—	110	91	97	95	24
—	—	—	1	81	103	103	86	81	103	107	87	25
—	—	—	1	255	189	420	251	255	189	420	252	26
90	78	74	73	371	321	552	367	4,178	3,785	3,868	3,643	27
8	8	6	7	70	55	53	28	130	114	110	71	28
518	487	477	470	1,899	2,001	2,323	1,818	13,152	12,729	12,343	12,126	29

Calculated Total World's Cotton Mill Stocks on July 31, 1927, with to the International

	COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
		AMERICAN				EAST INDIAN			
		HALF YEAR ENDING				HALF YEAR ENDING			
		July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925
1	Europe:								
2	Great Britain	122	127	120	131	17	13	32	31
3	Germany	220	178	100	124	31	18	26	51
4	France	148	140	124	130	41	35	49	53
5	Russia	125	12	19	82	—	—	—	—
6	Italy	148	135	124	140	33	23	61	91
7	Czechoslovakia	64	53	41	44	9	7	13	27
8	Spain	29	30	18	18	6	3	7	7
9	Belgium	55	31	31	29	24	23	34	39
10	Switzerland	21	24	13	17	3	2	4	4
11	Poland	21	24	8	11	4	2	2	4
12	Austria	18	18	13	13	4	4	7	11
13	Holland	33	31	19	20	7	4	7	10
14	Sweden	25	17	19	16	—	—	—	—
15	Portugal	6	13	4	4	—	—	—	—
16	Finland	5	5	6	4	—	—	—	—
17	Denmark	3	2	3	3	—	—	—	1
18	Norway	1	2	1	2	—	—	—	—
18	Europe total	1,044	842	663	787	179	134	242	329
19	Asia:								
20	India	117	25	8	—	684	436	607	578
21	Japan	387	194	207	192	568	177	555	551
22	China	68	50	35	27	77	70	167	127
22	Asia total	572	269	250	219	1,329	683	1,329	1,256
23	America:								
24	U. S. A.	1,325	1,789	1,010	787	4	8	10	12
25	Canada	69	69	36	31	—	—	—	—
26	Mexico	—	—	2	—	—	—	—	—
27	Brazil	—	—	—	—	—	—	—	—
27	America total	1,394	1,858	1,048	818	4	8	10	12
28	Sundries	10	13	8	9	3	4	8	2
29	Grand totals	3,020	2,982	1,969	1,833	1,515	829	1,589	1,599

Previous Figures for Comparison on Basis of Spinners' Returns made Cotton Federation

IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)											
EGYPTIAN				SUNDRIES				TOTAL			
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING			
July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925
44	41	45	52	74	63	45	38	257	244	242	252
16	10	7	11	6	3	2	6	273	209	135	192
22	20	26	25	19	30	24	19	230	225	223	227
26	10	8	11	122	343	257	244	373	365	284	337
11	11	15	12	2	5	4	6	194	174	204	249
4	4	4	3	1	1	1	2	78	65	59	76
5	5	4	3	2	3	1	1	42	41	30	29
2	1	1	1	3	5	2	3	84	60	68	72
17	15	11	7	2	—	—	1	43	41	28	29
1	3	2	2	1	1	—	1	27	30	12	18
1	—	1	1	—	1	—	1	23	23	21	26
—	—	—	—	2	—	1	—	42	35	27	30
—	—	—	—	1	1	—	—	26	18	19	16
—	—	—	—	2	5	4	6	8	18	8	10
—	—	—	—	—	—	—	—	5	5	6	3
—	—	—	—	—	—	—	—	3	2	3	4
—	—	—	—	—	—	—	—	1	2	1	2
149	120	124	128	237	461	341	328	1,609	1,557	1,370	1,572
2	2	3	—	23	10	12	5	826	473	630	583
24	15	27	16	22	16	30	24	1,001	402	819	783
1	—	—	—	92	153	170	132	238	273	372	286
27	17	30	16	137	179	212	161	2,065	1,148	1,821	1,652
39	32	43	34	19	10	15	20	1,387	1,839	1,078	853
2	1	2	—	—	—	—	—	71	70	38	31
—	—	—	—	62	45	25	40	62	45	27	40
—	—	—	—	99	49	116	97	99	49	116	97
41	33	45	34	180	104	156	157	1,619	2,003	1,259	1,021
3	3	2	3	31	27	30	8	47	47	48	22
220	173	201	181	585	771	739	654	5,340	4,755	4,498	4,267

Consumption of Cotton, per Thousand Spindles, by Countries

[In running bales]

Source: International Federation of Master Cotton Spinners' and Manufacturers' Associations
Statistics

COUNTRIES	1922	1923	1924	1925	1926	1927
World	137.3	141.2	128.0	144.3	151.0	157.2
Great Britain	50.6	48.9	47.8	56.6	53.2	51.6
France	110.8	126.0	113.5	119.0	124.3	123.8
Germany	126.2	111.9	81.9	127.4	110.4	136.2
Italy	175.6	195.9	236.1	210.0	216.4	185.9
Czechoslovakia	104.0	71.2	120.5	139.4	134.5	139.4
Spain	200.5	194.0	201.8	194.1	166.3	207.1
Belgium	151.2	161.9	170.0	170.5	191.7	193.4
Switzerland	57.5	48.7	66.6	71.1	74.5	71.0
Poland	184.9	189.6	162.5	178.3	147.0	229.1
Holland	175.5	165.5	81.6	166.4	147.8	162.3
Sweden	133.4	148.0	151.4	149.6	161.0	156.2
Portugal	156.0	177.1	180.9	149.1	168.9	143.1
Finland	142.2	133.6	119.5	110.6	154.1	150.1
Denmark	188.2	296.0	262.5	236.7	223.4	218.7
Norway	111.9	112.6	90.9	172.6	109.0	100.0
India	336.7	307.0	260.4	287.0	242.5	298.2
Japan	519.2	535.0	484.3	464.6	511.2	455.8
U. S. America	159.8	177.4	148.5	161.6	176.5	192.5
Canada	149.6	163.9	130.2	122.0	180.4	174.3
Mexico	179.8	177.4	185.7	237.1	268.1	220.0
Brazil	300.7	328.6	222.9	273.3	322.6	172.6

World's Visible Supply of Cotton during Past Five Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —	1922-23		1923-24		1924-25		1925-26		1926-27	
	All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American
August 6	3,692	1,865	2,039	850	2,148	939	2,222	1,052	3,511	2,184
13	3,509	1,762	1,939	799	2,072	910	2,137	992	3,406	2,103
20	3,363	1,671	1,917	792	1,931	818	2,153	1,005	3,353	2,044
27	3,373	1,643	1,940	829	1,875	792	2,240	1,137	3,243	1,985
September 3	3,210	1,629	1,978	924	1,881	835	2,434	1,371	3,223	2,004
10	3,219	1,689	2,013	1,031	1,963	948	2,686	1,646	3,252	2,082
17	3,266	1,770	2,134	1,189	2,108	1,134	3,017	1,977	3,457	2,333
24	3,455	1,996	2,337	1,429	2,362	1,423	3,449	2,399	3,812	2,694
October 1	3,692	2,265	2,550	1,651	2,688	1,737	3,894	2,844	4,374	3,202
8	3,944	2,566	2,774	1,913	2,932	2,023	4,209	3,218	4,921	3,766
15	4,263	2,869	2,964	2,139	3,222	2,363	4,589	3,587	5,397	4,243
22	4,531	3,135	3,222	2,392	3,609	2,744	4,910	3,893	5,810	4,710
29	4,827	3,434	3,401	2,601	3,907	3,062	5,250	4,184	6,206	5,113
November 5	5,027	3,670	3,617	2,791	4,284	3,419	5,511	4,413	6,618	5,511
12	5,087	3,811	3,924	2,926	4,582	3,736	5,729	4,615	6,947	5,856
19	5,219	3,925	4,064	3,054	4,835	4,022	5,904	4,780	7,321	6,214
26	5,253	3,973	4,199	3,161	5,082	4,232	6,117	4,974	7,581	6,484
December 3	5,474	4,009	4,353	3,293	5,312	4,463	6,393	5,179	7,854	6,749
10	5,420	3,957	4,436	3,350	5,541	4,667	6,581	5,288	8,137	6,974
17	5,368	3,907	4,522	3,398	5,681	4,741	6,750	5,411	8,317	7,143
24	5,358	3,839	4,646	3,405	5,901	4,877	6,873	5,485	8,494	7,235
31	5,441	3,800	4,785	3,435	5,966	4,938	6,935	5,523	8,608	7,332
January 7	5,328	3,680	4,853	3,396	6,084	5,022	7,017	5,468	8,690	7,328
14	5,316	3,635	4,891	3,341	6,148	4,979	6,933	5,378	8,796	7,365
21	5,296	3,513	4,871	3,281	6,115	4,927	6,862	5,332	8,895	7,390
28	5,249	3,433	4,910	3,239	6,139	4,885	6,738	5,230	8,920	7,341
February 4	5,177	3,324	4,782	3,128	6,025	4,785	6,701	5,139	8,857	7,235
11	4,984	3,181	4,674	3,057	5,908	4,654	6,650	5,084	8,808	7,091
18	4,876	3,015	4,694	2,983	5,911	4,607	6,656	5,003	8,741	6,977
25	4,761	2,890	4,696	2,887	5,836	4,478	6,584	4,909	8,649	6,929
March 4	4,734	2,763	4,690	2,790	5,872	4,391	6,493	4,776	8,495	6,819
11	4,672	2,674	4,617	2,694	5,748	4,281	6,374	4,649	8,352	6,719
18	4,614	2,579	4,408	2,551	5,731	4,155	6,244	4,523	8,260	6,597
25	4,476	2,468	4,316	2,487	5,603	3,992	6,104	4,430	8,121	6,473
April 1	4,388	2,359	4,192	2,395	5,434	3,811	6,013	4,335	7,987	6,368
8	4,158	2,201	4,059	2,281	5,182	3,592	5,898	4,217	7,849	6,241
15	4,105	2,095	3,923	2,172	5,119	3,440	5,794	4,126	7,760	6,095
22	4,035	1,978	3,717	2,079	4,982	3,302	5,621	4,003	7,637	6,006
29	3,799	1,900	3,631	1,964	4,907	3,184	5,538	3,862	7,452	5,811
May 6	3,615	1,813	3,546	1,882	4,669	2,982	5,436	3,780	7,227	5,597
13	3,401	1,720	3,432	1,776	4,545	2,825	5,384	3,713	7,046	5,395
20	3,313	1,619	3,300	1,655	4,273	2,620	5,194	3,542	6,921	5,216
27	3,187	1,538	3,158	1,572	4,169	2,441	5,064	3,448	6,744	5,048
June 3	3,076	1,447	3,054	1,505	4,003	2,304	4,890	3,307	6,565	4,867
10	2,923	1,347	2,929	1,418	3,851	2,171	4,754	3,180	6,399	4,722
17	2,824	1,286	2,913	1,405	3,651	2,024	4,654	3,076	6,202	4,497
24	2,748	1,221	2,818	1,354	3,425	1,877	4,548	2,959	5,940	4,258
July 1	2,641	1,145	2,694	1,268	3,151	1,757	4,377	2,823	5,681	4,068
8	2,502	1,090	2,579	1,200	2,966	1,638	4,213	2,727	5,512	3,862
15	2,341	1,023	2,444	1,113	2,783	1,489	4,058	2,594	5,346	3,741
22	2,256	962	2,370	1,064	2,663	1,390	3,914	2,464	5,214	3,609
29	2,192	898	2,270	998	2,514	1,283	3,703	2,300	4,932	3,416
30	2,129	870	2,161	952	2,288	1,125	3,669	2,279	4,895	3,379

United States Cotton Consumption, by States ¹

[In running bales, exclusive of linters]

Source: United States Bureau of the Census

	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
New England States:						
Maine . . .	162,142	182,184	148,836	146,379	136,318	135,994
New Hampshire	175,983	235,377	191,816	205,326	224,981	231,844
Vermont . .	12,470	12,087	9,550	10,129	7,952	10,436
Massachusetts	1,140,459	1,231,300	869,695	950,942	945,790	972,820
Rhode Island .	215,996	264,132	217,971	230,035	220,332	219,227
Connecticut .	115,631	124,500	96,909	95,963	92,624	104,451
Total New England States . . .	1,822,681	2,049,580	1,534,777	1,636,774	1,627,997	1,674,772
Other non-cotton-growing States:						
New York . .	197,930	201,270	144,017	164,610	163,905	162,477
New Jersey .	38,365	41,866	39,088	62,132	47,826	35,772
Pennsylvania .	29,747	30,876	30,892	30,687	30,054	26,508
Maryland . .	41,158	44,799	31,833	37,150	42,998	45,619
Indiana . . .	15,936	15,683	15,711	15,157	17,419	19,444
Illinois . . .	12,418	12,451	13,165	11,783	11,326	12,390
Others . . .	21,808	21,619	12,754	10,762	14,084	19,103
Total other non-cotton-growing States	357,362	368,764	287,460	332,281	327,612	321,313
Cotton-growing States:						
Virginia . . .	116,530	121,272	105,775	110,883	121,243	129,783
North Carolina .	1,198,163	1,326,174	1,199,859	1,334,794	1,394,124	1,639,726
South Carolina .	918,725	1,035,557	947,964	1,029,797	1,078,146	1,245,482
Georgia . . .	781,870	974,662	864,328	966,324	1,012,980	1,152,855
Alabama . . .	377,548	414,880	392,705	430,051	494,283	570,409
Mississippi . .	40,463	46,117	34,751	32,201	33,402	36,450
Tennessee . .	107,731	123,052	120,053	115,202	130,619	150,914
Kentucky . . .	22,353	23,915	22,362	21,284	23,088	25,562
Louisiana . .	40,704	45,135	35,097	33,566	34,633	39,184
Texas	76,606	83,221	79,627	93,494	118,071	139,273
Others	49,084	53,763	55,796	56,766	59,654	63,862
Total cotton-growing States . .	3,729,777	4,247,748	3,858,317	4,224,362	4,500,243	5,193,500
Total United States	5,909,820	6,666,092	5,680,554	6,193,417	6,455,852	7,189,585

¹ Statistics here given are for years ending July 31.

United States Cotton Production, Consumption, and Active Cotton Spindles

[Running bales, except those for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumption from 1840 to 1870, and for foreign cotton, which are in equivalent 500-pound bales. Linters are not included except for quantities consumed in 1909 and years prior thereto]

Source: United States Bureau of the Census

YEAR	Cotton produced (Bales) ¹	COTTON CONSUMED (BALES)				ACTIVE COTTON SPINDLES			
		United States	Cotton-growing States	New England States	All Other States	United States	Cotton-growing States	New England States	All Other States
1927	17,755,070	7,189,585	5,193,500	1,674,772	321,313	34,409,910	17,893,908	14,995,460	1,520,542
1926	16,122,516	6,455,852	4,500,243	1,627,997	327,612	34,750,266	17,574,450	15,525,672	1,650,144
1925	13,639,399	6,193,417	4,220,010	1,638,774	334,633	35,032,246	17,292,042	15,975,442	1,764,762
1924	10,170,694	5,680,554	3,858,317	1,534,777	287,460	35,849,338	16,944,178	17,066,036	1,839,124
1923	9,729,306	6,666,092	4,247,748	2,049,580	368,764	36,260,001	16,310,360	18,053,716	1,895,925
1922	7,977,778	5,909,820	3,729,777	1,822,681	357,362	35,707,738	15,906,165	17,938,805	1,862,768
1921	13,270,970	4,892,672	2,997,471	1,613,597	281,604	36,047,367	15,708,988	18,387,789	1,950,590
1920	11,325,532	6,419,734	3,582,919	2,397,126	439,689	35,480,953	15,230,983	18,287,424	1,962,546
1919	11,906,480	5,765,936	3,199,027	2,165,031	401,878	34,930,934	14,846,239	18,065,857	2,018,838
1918	11,248,242	6,566,489	3,697,098	2,402,520	466,871	34,542,665	14,529,063	17,981,720	2,028,882
1917	11,363,915	6,788,505	3,888,348	2,414,372	485,785	33,888,835	14,155,758	17,760,968	1,972,109
1916	11,068,173	6,397,613	3,527,528	2,388,726	481,359	32,805,883	13,382,065	17,474,264	1,949,554
1915	15,905,840	5,597,362	3,026,969	2,149,398	420,995	31,964,235	12,955,712	17,100,615	1,907,908
1914	13,982,811	5,577,408	2,925,294	2,219,197	432,917	32,107,572	12,711,303	17,408,372	1,987,897
1913	13,488,539	5,483,321	2,861,743	2,178,237	443,341	31,519,766	12,227,226	17,311,451	1,981,089
1912	15,553,073	5,129,346	2,635,878	2,076,405	417,063	30,578,528	11,582,869	17,139,945	1,855,714
1911	11,568,334	4,498,417	2,249,135	1,882,060	367,222	29,522,597	11,084,623	16,510,981	1,926,993
1910	10,072,731	4,621,742	2,233,506	1,995,456	392,780	28,266,862	10,494,112	15,735,086	2,037,664
1909	13,086,005	5,240,719	2,553,797	2,144,448	542,474	28,018,305	10,429,200	15,591,851	1,997,254
1908	11,057,822	4,539,090	2,187,096	1,894,835	457,159	27,505,422	10,200,903	15,329,333	1,975,186
1907	12,983,201	4,984,936	2,410,993	2,073,355	500,588	26,375,191	9,527,964	14,912,517	1,934,710
1906	10,495,105	4,909,279	2,373,577	2,059,900	475,802	25,250,096	8,994,868	14,407,580	1,847,648
1905	13,451,337	4,278,980 ²	2,140,151 ²	1,753,282 ²	385,547 ²	23,687,495	7,631,331	14,202,971	1,853,193
1900	9,393,242	3,873,165	1,523,168	1,909,498	440,499	19,472,232	4,367,688	13,171,377	1,933,167
1890	7,472,511	2,518,409	538,895	1,502,177	477,337	14,384,180	1,570,288	10,934,297	1,879,595
1880	5,755,359	1,570,344 ³	188,748 ³	1,129,498 ³	252,098 ³	10,653,435 ³	561,360	8,632,087 ³	1,459,983 ³
1870	3,011,996	796,616	68,702	551,250	176,664	7,132,415	327,871	5,498,308	1,306,236
1860	5,387,052	845,410	93,553	567,403	184,454	5,235,727	324,052	3,858,962	1,052,713
1850	2,469,093	575,506	78,140	430,603	66,763	3,998,022	264,571	2,958,536	774,915
1840	2,063,915	236,525	71,000	158,708	6,817	2,284,631	180,927	1,597,394	506,310

¹ Relates to crop of preceding year.

² Does not include foreign cotton.

³ Cotton mills only.

Exports of Cotton from Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK		1924-25		1925-26		1926-27	
		Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	2	83,477	19,402	57,210	10,357	125,331	125,331
	9	43,769	63,171	42,081	52,438	54,906	180,237
	16	73,055	136,226	47,552	99,990	48,252	228,489
	23	124,834	261,060	89,452	189,442	67,352	295,841
	30	176,237	437,297	61,199	250,641	62,215	358,056
October	7	98,703	536,000	111,042	361,683	99,643	457,699
	14	172,515	708,515	209,651	571,334	52,607	510,306
	21	168,890	877,405	150,341	721,675	200,468	710,774
	28	212,525	1,089,930	267,950	989,625	217,353	928,127
November	4	351,236	1,441,166	189,286	1,178,911	182,483	1,110,610
	11	258,117	1,699,283	312,432	1,491,343	195,492	1,306,102
	18	273,114	1,972,397	233,814	1,725,157	168,165	1,474,267
	25	250,343	2,222,740	209,575	1,934,732	240,554	1,714,821
December	2	371,226	2,593,966	246,540	2,181,272	238,513	1,953,334
	9	303,786	2,897,752	243,472	2,424,744	226,982	2,180,316
	16	283,692	3,181,444	202,392	2,627,136	248,158	2,428,474
	23	239,206	3,420,650	247,905	2,875,041	155,016	2,583,490
	30	299,585	3,720,235	158,820	3,033,861	220,636	2,804,126
January	6	259,454	3,979,689	95,869	3,129,730	131,030	2,935,156
	13	98,387	4,078,076	88,954	3,218,684	128,496	3,063,652
	20	169,627	4,247,703	320,208	3,538,892	157,094	3,220,746
	27	231,569	4,479,272	181,360	3,720,252	170,487	3,391,233
February	3	204,385	4,683,657	192,787	3,913,039	232,627	3,623,860
	10	132,757	4,816,414	249,678	4,162,717	167,282	3,791,142
	17	173,569	4,989,983	173,286	4,336,003	206,722	3,997,864
	24	184,006	5,173,989	136,508	4,472,511	123,525	4,121,389
March	3	198,411	5,372,400	135,522	4,608,033	274,865	4,396,254
	10	120,606	5,493,006	136,115	4,744,148	111,703	4,507,957
	17	120,122	5,595,128	110,306	4,854,454	149,824	4,657,781
	24	90,773	5,685,901	151,616	5,006,070	238,286	4,896,067
	31	200,296	5,886,197	177,043	5,183,113	171,311	5,067,378
April	7	43,111	5,929,308	42,635	5,225,748	175,499	5,242,871
	14	52,237	5,981,545	74,199	5,299,947	165,920	5,408,797
	21	63,306	6,044,851	93,413	5,393,360	217,921	5,626,718
	28	73,192	6,118,042	137,570	5,530,930	131,548	5,758,266
May	5	102,105	6,220,147	107,242	5,638,172	175,824	5,134,090
	12	105,409	6,325,556	148,502	5,786,674	189,446	6,123,536
	19	39,964	6,365,520	134,743	5,921,417	132,371	6,255,907
	26	70,105	6,435,625	72,793	5,994,210	104,390	6,360,297
June	2	34,649	6,470,274	93,282	6,087,492	116,369	6,476,666
	9	69,741	6,540,015	96,796	6,184,288	225,588	6,702,254
	16	67,176	6,607,191	107,093	6,291,381	43,542	6,745,796
	23	42,233	6,649,424	39,695	6,331,076	142,722	6,888,518
	29	76,204	6,725,628	112,973	6,444,049	158,819	7,047,334
July	7	26,417	6,752,045	105,298	6,549,347	61,358	7,108,695
	14	49,477	6,801,522	61,546	6,610,893	157,497	7,266,192
	21	31,943	6,833,465	78,987	6,689,880	51,864	7,318,056
	28	56,440	6,889,905	70,035	6,759,915	141,222	7,459,278
August	4	45,768	6,935,673	134,549	6,894,464	120,526	7,579,804
	11	36,960	6,972,633	39,910	6,934,374	70,808	7,650,612
	18	41,420	7,014,053	62,844	6,997,218	61,934	7,712,546
	25	22,308	7,036,361	81,067	7,078,285	111,855	7,824,401

Receipts of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK		1924-25		1925-26		1926-27	
		Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	2	69,462	40,661	66,551	34,010	14,697	14,697
	9	129,210	169,871	91,856	125,866	30,608	45,305
	16	174,915	344,786	142,513	268,379	59,557	104,862
	23	284,458	629,244	188,077	456,456	125,266	230,128
	30	301,813	931,057	297,518	753,974	175,958	406,086
October	7	235,717	1,166,774	356,660	1,110,634	234,357	640,443
	14	363,642	1,530,416	341,759	1,452,393	245,338	885,781
	21	303,779	1,834,195	353,162	1,805,555	324,170	1,209,951
	28	448,536	2,282,731	366,800	2,172,355	363,583	1,573,534
November	4	399,991	2,682,722	339,176	2,511,531	370,736	1,944,270
	11	366,715	3,049,437	338,072	2,849,603	360,755	2,305,025
	18	428,384	3,477,821	301,875	3,151,478	391,387	2,696,412
	25	386,398	3,864,219	198,116	3,349,594	379,180	3,075,592
December	2	383,041	4,247,260	320,088	3,669,682	401,616	3,477,208
	9	350,926	4,598,186	323,192	3,992,874	338,926	3,816,134
	16	356,701	4,954,887	322,818	4,315,692	239,092	4,055,226
	23	257,579	5,212,466	292,115	4,607,807	262,944	4,318,170
	30	211,828	5,424,294	284,462	4,892,269	276,275	4,594,445
January	6	215,125	5,639,419	210,423	5,102,692	299,754	4,894,199
	13	152,361	5,791,780	153,665	5,256,357	182,081	5,076,280
	20	168,658	5,960,438	154,166	5,410,523	182,311	5,258,591
	27	150,504	6,110,942	184,100	5,594,623	222,116	5,480,707
February	3	109,961	6,220,633	184,876	5,779,499	200,592	5,681,299
	10	84,922	6,305,555	218,353	5,997,852	176,343	5,857,642
	17	121,721	6,427,276	200,725	6,198,577	127,883	5,985,525
	24	100,744	6,528,020	197,196	6,395,773	137,883	6,123,408
March	3	75,729	6,603,749	156,572	6,552,345	296,187	6,419,595
	10	73,067	6,676,816	117,758	6,670,103	238,254	6,657,849
	17	63,779	6,740,595	76,928	6,747,031	192,191	6,850,040
	24	53,750	6,794,345	86,953	6,833,984	172,304	7,022,344
	31	74,196	6,868,511	93,349	6,927,333	117,706	7,140,050
April	7	36,292	6,904,833	66,445	6,993,778	116,706	7,256,756
	14	22,934	6,927,767	49,581	7,043,359	66,378	7,323,134
	21	15,732	6,943,499	67,343	7,110,702	105,662	7,428,796
	28	5,774	6,949,273	98,882	7,209,584	97,982	7,526,778
May	5	9,406	6,958,678	95,229	7,304,813	118,320	7,645,098
	12	9,425	6,968,104	63,712	7,368,525	182,957	7,828,055
	19	8,532	6,976,636	72,122	7,440,647	182,374	8,010,429
	26	12,710	6,989,346	61,882	7,502,529	222,927	8,233,356
June	2	21,419	7,010,765	72,016	7,574,545	153,112	8,386,468
	9	20,626	7,031,391	67,181	7,641,726	73,132	8,459,600
	16	4,671	7,036,062	75,457	7,717,183	40,984	8,500,584
	23	541	7,036,603	62,489	7,779,672	29,410	8,529,994
	29	1,069	7,037,672	28,902	7,808,574	20,114	8,550,108
July	7	-	7,037,672	41,530	7,850,104	25,730	8,575,838
	14	1,140	7,058,812	25,353	7,875,457	34,901	8,610,739
	21	111	7,038,923	15,297	7,890,754	16,288	8,627,027
	28	1,855	7,040,778	18,326	7,909,080	10,916	8,637,943
August	4	338	7,041,116	10,938	7,920,018	7,532	8,645,475
	11	898	7,042,014	12,671	7,932,689	4,768	8,650,243
	18	6,285	7,048,299	12,363	7,945,052	13,792	8,664,035
	25	22,614	7,070,913	6,532	7,951,584	7,165	8,671,200

Stock of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
September 2	1,752,288	1,369,946	818,275	281,259	303,893	1,157,195
9	1,783,372	1,310,853	815,740	366,700	353,668	1,132,897
16	1,699,479	1,264,757	838,578	468,560	561,389	1,089,789
23	1,706,181	1,360,087	948,246	628,184	660,014	1,147,703
30	1,690,188	1,478,231	1,022,616	753,760	896,333	1,261,446
October 7	1,850,409	1,699,035	1,171,121	890,774	1,141,951	1,396,160
14	1,997,173	1,931,005	1,358,163	1,081,901	1,274,059	1,588,891
21	2,139,264	2,059,531	1,526,583	1,216,790	1,476,880	1,712,593
28	2,262,407	2,295,028	1,702,681	1,452,801	1,575,730	1,858,823
November 4	2,187,983	2,393,234	1,841,686	1,501,556	1,725,620	2,047,076
11	2,247,865	2,626,011	1,957,359	1,610,154	1,751,260	2,212,339
18	2,320,074	2,681,855	2,177,395	1,765,424	1,819,321	2,435,561
25	2,423,389	2,673,550	2,189,684	1,901,475	1,807,862	2,574,187
December 2	2,447,501	2,769,026	2,043,403	1,913,294	1,881,410	2,737,290
9	2,305,446	2,594,376	2,100,414	1,960,434	1,961,130	2,849,234
16	2,369,408	2,585,701	2,178,298	2,033,443	2,081,556	2,840,168
23	2,451,920	2,574,545	2,147,592	2,051,816	2,125,766	2,948,096
30	2,528,739	2,578,322	2,250,630	1,964,059	2,251,408	3,003,735
January 6	2,538,750	2,511,518	2,186,298	1,919,739	2,365,962	3,172,459
13	2,503,822	2,475,510	2,002,478	1,973,704	2,430,673	3,226,044
20	2,510,528	2,379,650	1,915,306	1,972,735	2,264,631	3,251,061
27	2,488,658	2,303,933	1,840,639	1,891,670	2,267,371	3,302,690
February 3	2,400,635	2,221,221	1,811,833	1,796,976	2,259,460	3,270,655
10	2,357,626	2,200,555	1,782,538	1,749,141	2,228,135	3,279,716
17	2,351,900	2,186,274	1,766,185	1,697,293	2,255,574	3,200,877
24	2,343,107	2,186,202	1,689,654	1,614,031	2,316,262	3,215,235
March 3	2,293,889	2,119,139	1,678,143	1,491,349	2,337,312	3,236,557
10	2,270,773	2,057,560	1,525,498	1,443,810	2,318,955	3,363,108
17	2,301,435	2,001,133	1,511,004	1,405,467	2,285,577	3,405,475
24	2,269,392	1,955,928	1,506,105	1,368,444	2,220,914	3,339,493
31	2,257,656	1,929,154	1,402,827	1,242,344	2,137,220	3,285,888
April 7	2,265,683	1,811,599	1,342,047	1,235,525	2,162,560	3,227,095
14	2,261,160	1,790,358	1,296,627	1,206,222	2,137,942	3,127,553
21	2,195,380	1,723,819	1,239,416	1,158,648	2,111,872	3,015,294
28	2,209,913	1,771,275	1,211,688	1,091,231	2,073,184	2,981,728
May 5	2,197,814	1,717,640	1,169,438	998,532	2,061,171	2,924,224
12	2,181,152	1,694,283	1,029,939	902,548	1,976,381	2,917,735
19	2,080,304	1,613,938	955,031	871,116	1,913,760	2,967,738
26	2,012,516	1,544,006	892,032	813,721	1,902,849	3,086,275
June 2	1,926,073	1,491,886	863,622	800,491	1,881,583	3,123,018
9	1,925,655	1,414,620	774,572	751,376	1,851,968	2,970,562
16	1,883,481	1,380,576	699,976	688,871	1,820,332	2,968,004
23	1,856,945	1,313,655	634,212	647,179	1,843,126	2,854,642
29	1,820,361	1,239,640	580,526	572,044	1,759,155	2,715,937
July 7	1,772,838	1,178,490	516,925	545,627	1,695,287	2,680,309
14	1,712,204	1,126,611	495,290	497,290	1,659,094	2,557,713
21	1,668,648	1,095,532	417,242	465,458	1,595,404	2,522,137
28	1,650,501	1,020,034	384,092	410,873	1,543,695	2,391,831
August 4	1,560,444	951,719	339,127	365,443	1,420,084	2,278,837
11	1,524,801	903,919	301,355	329,381	1,392,845	2,212,797
18	1,464,301	854,736	280,329	294,246	1,342,364	2,164,655
25	1,399,145	837,702	285,803	294,552	1,267,829	2,059,965

Egyptian Cotton Exports, by Countries of Destination, during Egyptian Cotton Season, from September 1 to August 31

[In running Egyptian bales]

Source: Alexandria General Produce Association

	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
Austria . . .	—	—	—	—	—	—	—	—	—	—	—
Belgium . . .	—	—	—	812	2,331	4,235	7,108	7,639	3,299	3,985	5,906
England . . .	346,196	503,597	459,774	345,878	223,292	353,275	403,045	450,436	424,953	426,278	436,798
France . . .	28,063	44,560	78,487	50,089	40,266	83,198	114,185	137,707	126,464	126,052	117,149
Germany . . .	—	—	—	5,874	8,558	16,582	19,092	17,167	14,377	9,523	21,517
Greece and Turkey .	143	4,891	2,602	926	2,676	2,930 ¹	792 ¹	2,488 ¹	3,286 ¹	1,973 ¹	2,893
Holland . . .	—	—	—	1,841	2,680	3,443	3,627	7,290	9,799	7,173	11,554
India and China . .	—	—	—	—	2,060	1,260	1,627	1,851	434	874	1,973
Italy . . .	54,726	50,140	49,328	52,111	77,775	90,257	117,146	137,776	160,710	140,772	185,307
Japan . . .	20,682	18,218	22,160	14,256	18,686	19,753	33,711	26,356	33,080	50,562	43,371
Portugal . . .	929	—	250	695	763	650	925	850	823	843	978
Russia . . .	32,446	—	—	—	—	—	1,450	—	—	—	18,061
Spain . . .	12,534	16,911	10,436	8,805	14,671	19,399	29,557	27,508	19,608	26,001	23,957
United States . . .	134,891	75,865	95,262	256,555	51,130	168,136	211,417	109,261	135,200	150,570	162,186
Other countries . . .	—	—	10	15	527	410	1,646	1,000	2,530	1,587	2,078
Total . . .	630,610	714,182	718,309	737,857	445,415	763,528	945,328	927,328	934,563	946,193	1,033,728

¹ Greece and Syria.

NOTE. — This table shows only the destination of the cotton as given when the cotton was shipped from Egypt. Some of the cotton was reshipped from these countries of initial destination and was finally consumed in other countries; for example, some of the cotton reported here as taken by Great Britain was reshipped by the latter to the United States.

Great Britain Raw Cotton Trade and Distribution

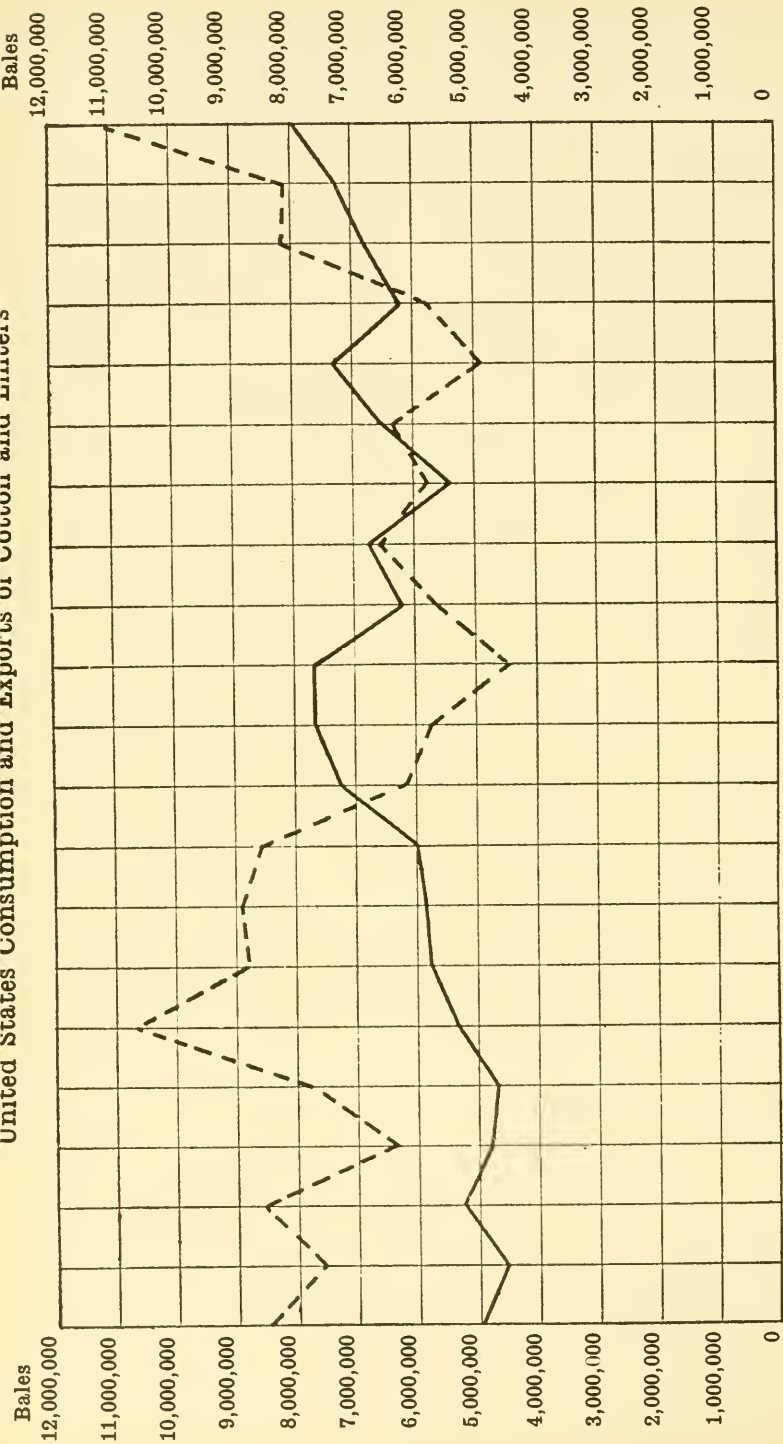
[000's omitted]

Source: Liverpool Cotton Association

Year	Imports						Exports	Consumption		Stock at End of Season		Year	
	American	Brazilian	Egyptian, etc.	Peruvian, etc.	East Indian	Total		Average Weight of Bales	Total	Average Weight of Bales	Liverpool		Great Britain
1850	1,184	172	79	6	308	1,749	392	272	1,514	388	455	622	1850
1860	2,581	103	109	10	563	3,366	424	608	2,523	429	546	794	1860
1870	1,664	403	220	112	1,063	3,462	380	658	2,797	386	379	547	1870
1880	2,634	123	240	73	570	3,640	434	531	3,068	444	478	681	1880
1890	2,918	150	272	66	604	4,010	467	477	3,500	475	910	1,179	1890
1900-01	3,028	39	389	55	128	3,639	506	375	3,101	506	366	506	1900-01
1910-11	3,399	125	603	127	252	4,506	503	557	3,797	498	402	724	1910-11
1911-12	4,305	78	590	151	106	5,230	507	642	4,261	503	595	1,087	1911-12
1912-13	3,615	202	591	193	136	4,737	506	527	4,345	501	572	994	1912-13
1913-14	3,507	286	570	249	264	4,876	492	437	4,231	491	886	1,225	1913-14
1914-15	4,048	40	559	206	277	5,130	504	605	3,890	496	1,462	1,815	1914-15
1915-16	2,698	5	557	197	154	3,611	513	494	3,971	497	644	962	1915-16
1916-17	2,646	17	442	191	96	3,392	512	204	3,567	505	268	585	1916-17
1917-18	2,276	25	484	143	211	3,139	512	3	2,960	506	251	760	1917-18
1918-19	2,490	13	414	165	84	3,166	510	75	2,929	521	659	900	1918-19
1919-20	3,268	79	623	292	200	4,462	507	449	3,434	503	1,015	1,479	1919-20
1920-21	1,716	15	252	226	93	2,302	505	291	2,080	512	1,085	1,474	1920-21
1921-22	1,811	111	417	309	62	2,710	506	224	2,835	497	787	1,163	1921-22
1922-23	1,335	89	496	299	243	2,462	508	194	2,746	496	399	683	1922-23
1923-24	1,682	58	481	421	326	2,968	500	249	2,741	499	414	661	1923-24
1924-25	2,568	50	462	469	196	3,745	491	236	3,280	491	570	889	1924-25
1925-26	2,255	153	437	555	226	3,626	488	238	3,092	488	849	1,185	1925-26
1926-27	2,644	115	454	260	87	3,560	502	306	3,129	497	1,212	1,595	1926-27

NOTE. — Through 1890, the import, export, and consumption figures were for year ending December 31; from 1900-01 through 1913-14 the figures are for year ending August 31; commencing with 1914-15 the figures are for year ending July 31.

United States Consumption and Exports of Cotton and Linens



The above chart is based on the table on the following page.

United States Production, Consumption, and Exports of Cotton and Linters

The statistics below are in running bales except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15, they have been from August 1 to July 31.

Source: United States Bureau of the Census

COTTON SEASON	Production	Consumption	Exports
1906-07	13,097,992	4,984,936	8,503,265
1907-08	11,527,833	4,539,090	7,573,349
1908-09	13,418,144	5,240,719	8,574,024
1909-10	10,350,978	4,798,953	6,339,028
1910-11	12,384,248	4,704,978	7,781,414
1911-12	16,068,936	5,367,583	10,681,758
1912-13	14,159,078	5,786,330	8,800,966
1913-14	14,290,320	5,884,733	8,914,839
1914-15	16,738,241	6,009,207	8,544,563
1915-16	12,012,813	7,278,529	6,191,110
1916-17	12,664,078	7,658,207	5,739,009
1917-18	12,344,664	7,685,329	4,476,124
1918-19	12,816,716	6,223,837	5,663,920
1919-20	11,920,625	6,762,207	6,598,347
1920-21	13,699,975	5,408,979	5,796,107
1921-22	8,360,153	6,548,853	6,316,121
1922-23	10,319,843	7,312,201	4,864,027
1923-24	10,810,234	6,217,292	5,772,000
1924-25	14,497,361	6,852,265	8,195,876
1925-26	17,167,011	7,259,618	8,155,570
1926-27	18,796,934	7,995,668	11,183,938

Indian Exports of Cotton

[Bales of 478 pounds net]

[Fiscal years ending March 31]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	1922-23	1923-24	1924-25	1925-26	1926-27
United Kingdom . . .	159,733	241,418	129,994	188,288	65,042
Germany	219,866	201,774	135,661	182,192	113,643
Netherlands	8,036	24,420	303,930	39,709	23,223
Belgium	210,651	216,988	161,775	203,419	124,674
France	105,566	145,801	107,680	161,152	96,879
Spain	53,878	73,130	77,162	60,984	42,350
Italy	201,680	460,507	389,601	381,618	239,448
Austria	35,545	35,091	6,241	1,617	800
Ceylon	4,334	5,331	3,433	5,717	3,322
Indo-China	16,628	22,244	21,699	36,541	16,342
China	415,600	225,571	228,249	456,454	308,048
Japan	1,354,496	1,436,451	1,545,547	1,744,256	1,447,041
United States . . .	18,243	35,985	26,415	25,923	16,434
All other	4,404	5,677	11,079	4,138	4,602
Total	2,808,660	3,130,388	2,874,834	3,492,007	2,504,867

Brazilian Exports of Raw Cotton

[Bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	Average, 1909-13	1922	1923	1924	1925	1926
Great Britain . . .	63,646	78,154	52,267	18,904	95,946	55,977
France	2,771	26,464	8,661	1,277	19,720	2,719
Italy	6	—	—	68	3	—
Netherlands	883	—	—	773	2,279	2,094
Belgium	1,331	—	—	108	1,245	—
Germany	2,332	—	—	255	5,302	4,110
Austria-Hungary . .	204	—	—	—	—	—
Portugal	7,517	26,619	20,312	7,084	10,170	8,400
Spain	491	—	—	—	—	—
Russia (in Europe) .	49	—	—	—	—	—
United States . . .	73	5,310	5	17	—	44
Argentina	46	—	—	—	—	—
Uruguay	7	—	—	—	—	—
All others	—	13,159	3,295	18	133	79
Total	79,356	149,706	84,540	28,502	134,798	73,423

United States Imports of Cotton, by Countries of Production

[Equivalent 500-pound bales]

Source: United States Department of Commerce

PERIOD	Egypt	China	Peru	India	Mexico	All Other	Total
Month of —							
July, 1927	22,155	4,333	2,127	2,200	173	159	31,147
June, 1927	28,798	4,019	1,227	2,875	53	106	37,078
May, 1927	14,020	2,873	1,265	2,596	329	264	21,347
April, 1927	27,345	3,585	1,830	2,205	2,440	653	38,058
March, 1927	23,692	3,433	1,349	1,709	10,854	230	41,267
February, 1927	20,063	4,456	2,213	358	12,518	94	39,702
January, 1927	32,949	6,425	2,276	343	14,604	342	56,939
December, 1926	20,958	3,181	1,814	238	13,131	529	39,851
November, 1926	22,773	617	2,671	472	14,878	30	41,441
October, 1926	7,616	252	1,942	1,981	18,872	214	30,877
September, 1926	2,334	104	1,314	1,100	5,067	88	10,007
August, 1926	9,064	188	849	2,815	353	—	13,269
Season ending —							
July 31, 1927	231,767	33,466	20,877	18,892	93,272	2,709	400,983
July 31, 1926	238,620	22,452	16,637	22,143	23,553	2,106	325,511
July 31, 1925	190,313	33,703	13,389	28,147	44,384	3,392	313,328
July 31, 1924	164,152	45,118	19,928	34,419	27,062	1,609	292,288
July 31, 1923	329,335	50,239	21,186	22,124	45,679	1,391	469,954
July 31, 1922	233,729	15,563	38,753	10,348	53,637	11,435	363,465
July 31, 1921	87,168	14,722	22,597	8,489	88,155	5,210	226,341
July 31, 1920	485,004	57,185	63,426	14,358	65,343	14,898	700,214
July 31, 1919	100,006	10,871	25,230	2,893	54,434	8,151	201,585
July 31, 1918	114,580	38,964	19,692	7,096	35,726	5,158	221,216
July 31, 1917	199,892	36,063	11,069	3,860	32,858	8,215	291,957
July 31, 1916	350,796	35,792	10,909	4,214	30,098	5,765	437,574
July 31, 1915	252,373	25,631	10,353	7,845	85,180	904	382,286

United States Exports of Domestic Cotton and Linters, by Countries of Destination [For fiscal years]

Source: United States Department of Commerce

Year	Total Value	Total	EXPORTS (EQUIVALENT 500-POUND BALES) TO —										Mexico	All Other Countries	
			United Kingdom	Germany	France	Italy	Spain	Belgium	Russia ¹	Austria ²	Netherlands	All Other Europe			Japan
1927	\$866,923,448	11,559,737	2,673,424	2,982,325	1,088,794	844,812	361,376	297,778	485,046	681	157,718	176,463	1,614,255	280,507	563,573
1928	917,713,940	8,211,647	2,297,641	1,690,307	943,586	745,070	314,619	303,461	335,775	618	129,891	155,250	1,118,261	253,932	126,668
1929	1,060,980,197	8,439,071	2,633,425	1,891,992	951,473	756,136	289,586	223,741	286,367	571	151,285	137,430	849,584	206,853	81
1930	903,975,146	5,898,713	1,694,885	1,345,534	751,424	563,733	216,253	168,968	120,318	2,114	112,456	153,233	583,957	151,731	1,082
1931	658,982,855	5,253,464	1,403,008	945,647	704,199	572,068	250,244	185,769	7,274	2,958	75,618	167,646	679,158	217,052	27,331
1932	596,378,864	6,717,757	1,806,743	1,616,674	820,049	468,590	341,551	186,272	—	4,008	96,203	135,614	895,367	201,166	139,325
1933	600,185,629	5,622,727	1,756,984	1,152,424	590,630	558,015	260,950	166,018	—	5,862	98,754	155,056	354,892	169,166	53,384
1934	1,381,707,502	7,087,437	3,444,099	420,758	596,391	617,263	275,034	299,572	—	42,838	186,476	183,729	876,250	216,006	1,141
1935	873,379,669	5,525,893	2,494,009	773,741	557,549	557,549	281,343	72,652	310	55,386	106,511	103,949	809,313	203,015	1,707
1936	655,024,655	4,641,023	2,357,101	—	658,553	369,213	259,194	—	15,945	—	10,098	82,572	583,546	249,973	10,706
1937	543,074,690	6,176,162	2,895,423	—	1,055,749	687,158	394,093	—	49,189	—	62,161	184,717	530,892	187,201	5,298
1938	374,186,247	6,168,140	2,760,890	—	890,376	836,155	340,246	—	173,449	—	102,087	169,154	503,077	197,659	23,695
1939	376,217,972	8,807,157	3,919,749	294,194	692,699	1,127,400	464,504	5,057	82,125	455	544,035	898,096	428,806	182,790	39,727
1940	610,475,301	9,521,881	3,581,501	2,884,324	1,139,399	537,357	297,339	227,474	99,076	106,511	35,053	63,725	353,440	150,993	34,671
1941	547,357,195	9,124,591	3,716,898	2,443,886	1,074,987	500,823	317,954	226,967	74,907	113,182	14,537	55,376	396,779	152,015	20,977
1942	565,849,271	11,070,251	4,343,108	3,156,171	1,228,294	636,077	313,500	211,903	112,262	125,564	35,242	83,821	480,934	181,667	16,129
1943	585,318,869	8,067,882	3,461,054	2,902,707	1,021,998	436,296	247,073	150,225	84,941	79,530	18,124	48,713	156,724	156,824	4,631
1944	450,447,243	6,413,416	2,444,558	1,837,657	968,432	393,327	178,455	102,346	67,203	57,220	18,823	43,378	95,000	125,592	29,604
1945	417,390,655	8,895,970	3,665,355	2,438,000	1,098,173	562,695	301,789	157,631	96,675	94,782	30,129	58,174	208,943	131,453	42,575
1946	437,788,202	7,633,997	2,956,352	2,385,063	889,083	418,921	262,744	119,470	98,371	90,049	27,684	62,125	200,396	113,997	4,767
1947	481,277,797	9,036,434	3,966,119	2,315,651	1,006,633	567,916	275,868	154,168	121,141	113,630	29,092	65,083	262,283	150,343	732
1948	401,005,921	7,268,090	3,181,143	1,871,441	817,583	486,607	241,747	114,673	112,480	56,375	18,490	44,486	147,269	141,908	29,285
1949	379,965,014	8,609,698	3,967,254	2,011,679	818,304	534,735	264,397	145,564	62,572	61,633	72,911	336,575	115,857	115,857	9,405
1950	370,851,246	6,126,386	2,475,752	1,977,354	734,286	363,295	184,862	105,213	168,506	98,158	16,055	61,488	88,795	58,172	5,880
1951	316,180,429	7,086,086	2,799,096	1,915,094	806,673	444,950	266,336	157,351	181,938	39,912	42,542	82,243	152,826	127,640	69,507
1952	200,651,819	3,132,324	1,705,815	775,773	445,437	270,602	132,232	73,446	39,757	39,757	22,418	61,679	178,505	129,016	27,500
1953	313,673,443	6,661,781	2,106,857	1,629,933	754,329	365,359	237,346	134,682	93,171	72,238	53,235	52,235	102,980	102,980	35,103
1954	2,201,166	2,362,128	1,631,173	731,092	443,951	246,612	148,319	84,960	47,999	74,635	65,655	65,655	323,202	109,983	13,045
1955	204,504,774	7,546,821	3,609,444	1,728,952	803,406	417,353	248,635	125,324	57,127	51,621	84,500	84,500	82,774	98,230	30,130
1956	230,442,215	3,562,101	1,858,525	975,633	387,581	263,648	161,941	103,825	35,614	35,614	43,509	69,189	224,214	142,436	43,433
1957	230,890,971	6,207,510	3,127,186	1,371,577	716,025	323,117	219,088	83,485	84,570	23,971	34,731	48,790	61,022	80,408	30,207
1958	190,056,460	4,670,453	2,267,222	1,033,457	478,265	261,654	216,179	87,966	91,922	15,912	25,999	51,367	68,074	85,817	333
1959	200,990,990	3,553,782	1,594,631	790,699	332,646	256,678	145,340	141,998	141,998	24,852	25,999	55,319	22,130	163,534	75,953
1960	210,869,289	5,366,565	2,970,903	909,389	610,854	211,716	225,364	128,907	140,082	960	18,581	39,686	9,603	65,085	35,165

¹ Includes Finland and Poland prior to 1919.

² Includes Czechoslovakia and Hungary prior to 1920.

United States Exports of Cotton, by Ports

[In running bales, including linters]

Source: New York Cotton Exchange

	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
Galveston . . .	2,494,504	1,929,111	2,080,874	2,854,503	2,081,307	3,086,023
New Orleans . . .	1,320,016	814,017	945,227	1,379,102	1,834,343	2,135,443
Mobile . . .	122,619	59,099	22,676	80,789	149,613	244,972
Savannah . . .	692,375	293,496	343,241	480,783	870,441	1,036,231
Charleston . . .	176,021	89,732	157,405	243,983	282,890	547,271
Wilmington . . .	107,175	98,900	95,050	108,213	99,506	139,658
Norfolk . . .	238,027	174,320	219,631	252,226	311,085	338,701
Baltimore . . .	7,759	2,369	3,259	397	10,458	4,208
New York . . .	202,776	302,169	542,951	505,510	297,060	393,573
Boston . . .	16,704	13,552	18,555	14,325	14,686	11,890
Philadelphia . . .	4,279	1,977	2,917	7,490	2,998	6,555
Newport News . . .	-	-	19	-	-	379
Brunswick . . .	29,480	28,477	50	-	400	-
Pensacola, etc. . .	10,821	9,245	11,950	8,490	20,107	11,370
Port Arthur . . .	-	-	-	-	-	-
Port Townsend . . .	90,959	9,632	47,134	84,111	57,120	82,663
San Pedro, etc. . .	61,186	18,869	30,248	78,970	57,623	161,187
San Francisco . . .	61,298	69,112	77,986	111,970	82,917	95,475
Portland, Ore. . .	1,150	-	-	-	-	600
Nogales . . .	-	200	-	-	-	-
Texas City, etc. . .	5,242	3,765	1,754	16,794	-	91,117
Corpus Christi . . .	651	3,534	274	13	30	8,187
El Paso . . .	47	2,850	57	53	4	2
Houston . . .	478,131	719,942	1,065,612	1,821,828	1,796,671	2,551,439
Portland, Me. . .	-	199,053	145,656	200,051	251,707	274,919
Jacksonville . . .	1,300	675	2,254	1,858	12,457	341
Georgetown . . .	-	-	-	-	-	-
Total . . .	6,122,520	4,844,096	5,814,780	8,251,459	8,233,423	11,222,204

United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods (over 12 inches in width)	7,741,568,028	8,264,219,579	6,703,835,942
Shirtings (not silk striped or rayon striped)	372,106,936	262,539,219	249,306,167
North Carolina	69,948,031	61,350,157	56,014,065
Massachusetts	72,346,499	53,142,974	74,369,085
South Carolina	89,417,537	37,199,662	54,278,007
Shirtings (silk striped)	10,866,710	78,685,447	51,413,734
Massachusetts	- ¹	32,709,440	47,316,736
South Carolina	- ¹	24,997,273	- ¹
Rhode Island	- ¹	12,398,212	- ¹
Shirtings (rayon striped)	72,423,104	- ¹	- ¹
Massachusetts	22,157,363	- ¹	- ¹
North Carolina	14,341,728	- ¹	- ¹
Rhode Island	7,106,480	- ¹	- ¹
South Carolina	23,537,288	- ¹	- ¹
Cloth of cotton and silk or other vegetable fibre and silk (except silk-striped shirting)	177,106,868	150,848,235	36,558,908
Massachusetts	102,219,041	103,099,673	16,730,079
Rhode Island	21,980,761	17,627,283	- ¹
Lawns, nainsooks, cambrics and similar muslins	326,087,427	367,209,215	392,203,289
Massachusetts	128,933,441	157,246,005	188,804,824
Connecticut	35,303,649	51,613,296	58,187,624
North Carolina	38,808,998	49,340,482	- ¹
Rhode Island	43,018,788	45,503,046	53,672,221
South Carolina	66,689,815	26,082,288	46,212,610
Voiles	124,478,525	134,708,905	86,285,231
Massachusetts	93,857,220	119,933,525	62,057,818
Rhode Island	7,951,758	5,372,129	8,364,119
South Carolina	5,879,722	- ¹	- ¹
Ginghams	356,475,999	571,664,554	536,608,509
North Carolina	115,052,313	163,296,966	122,719,438
Massachusetts	77,980,136	136,695,791	137,880,098
South Carolina	29,300,264	37,491,030	37,379,682
Print cloths	1,166,374,053	1,578,196,293	1,157,680,495
South Carolina	739,834,612	830,088,788	557,114,622
Massachusetts	208,599,259	459,296,360	393,409,673
North Carolina	104,535,543	119,174,230	97,450,230

¹ Not reported separately.

**United States Production of the Principal Cotton Piece Goods;
and Yarns for Sale, 1921, 1923 and 1925 — (Continued)**

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Sheetings	1,638,168,738	1,695,520,069	1,600,998,979
South Carolina	501,219,102	549,849,047	552,384,046
Georgia	316,956,652	271,562,614	258,108,831
North Carolina	225,007,412	184,051,205	141,612,847
Massachusetts	95,439,280	136,433,893	137,893,022
Pillow tubing	30,528,811	17,286,049	28,116,000
Maine	13,193,637	6,838,615	15,496,615
Pile fabrics — plushes, velvets, velveteens, etc.	33,478,404	27,710,667	11,510,406
Pennsylvania	21,575,608	17,039,775	6,105,570
Rhode Island	5,093,956	4,885,496	— ¹
Corduroys	21,593,116	27,388,676	16,355,725
Twills and sateens	532,830,805	489,380,066	384,635,533
Massachusetts	133,519,173	130,902,592	90,166,148
Georgia	71,043,019	61,611,879	41,472,634
Connecticut	44,083,993	44,365,575	46,508,323
Alabama	42,301,355	36,920,779	28,833,424
Rhode Island	41,702,529	47,906,219	35,654,728
South Carolina	69,560,978	26,209,152	— ¹
Drills	286,114,586	303,420,862	191,715,280
Alabama	53,269,074	54,143,523	21,593,014
Georgia	92,985,954	116,119,981	54,468,304
South Carolina	77,357,241	75,103,202	63,916,287
Cotton flannel (Canton flannel, flannelettes and blanketings)	340,415,819	381,396,884	294,717,750
North Carolina	134,847,018	146,958,460	108,845,957
Massachusetts	66,280,654	100,925,303	84,790,910
New Hampshire	69,067,378	69,933,971	50,122,152
Tobacco, cheese, butter, bunting and bandage cloths	451,633,354	402,312,139	274,255,642
Massachusetts	242,175,661	248,276,400	153,374,313
South Carolina	105,151,924	— ¹	— ¹
Denims	180,491,656	225,640,344	168,126,957
Georgia	32,779,149	32,591,652	19,989,343
New Hampshire	11,920,016	15,429,494	11,790,288
North Carolina	67,552,257	89,557,002	71,516,582
Ticks	48,362,153	53,499,190	46,524,741
Georgia	8,806,213	7,940,484	—
North Carolina	14,872,377	17,336,236	13,036,545
Pennsylvania	3,866,476	4,241,861	— ¹

¹ Not reported separately.

United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925 — (Continued)

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Osnaburgs	118,068,963	109,101,142	100,039,127
Alabama	22,908,569	13,046,238	18,414,425
Georgia	39,046,869	32,460,448	22,290,605
South Carolina	32,778,742	28,408,425	18,249,410
Bagging	95,030,057	113,603,461	92,835,998
Bags made from fabric woven by same establishment	12,693,953	48,314,025	— ¹
Tire duck	40,761,508	68,258,927	51,722,845
Georgia	15,776,838	7,656,161	12,992,271
Massachusetts	3,796,113	17,921,361	11,059,044
North Carolina	11,906,996	— ¹	— ¹
Cord fabrics for tires	176,964,466	100,727,166	— ¹
Massachusetts	41,417,980	28,019,743	— ¹
North Carolina	24,822,855	—	—
Rhode Island	16,375,338	15,178,951	43,933,691
Ounce duck	161,883,782	139,221,366	97,033,262
Georgia	49,955,488	38,114,787	31,343,847
Massachusetts	11,687,072	12,072,914	—
Alabama	41,017,234	29,134,834	20,950,042
Texas	38,203,296	37,974,541	28,605,027
Numbered duck	31,449,971	27,862,308	38,166,796
Georgia	7,985,603	9,531,654	6,346,624
Maryland	11,050,571	8,607,810	7,926,282
Mosquito netting and tarlatan	21,094,700	37,383,959	38,057,754
Turkish towels and towelling	50,662,751	47,445,632	39,244,281
Pennsylvania	4,445,642	5,601,587	— ¹
All other Terry weaves	1,212,325	3,310,490	3,282,485
Towels and towelling, wash cloths, bath mats, wiping and polishing cloths (except pile fabrics)	75,902,999	75,199,965	80,680,384
Georgia	13,244,485	9,689,892	— ¹
New Jersey	8,264,282	7,720,013	— ¹
South Carolina	12,078,475	— ¹	— ¹
Sheets and pillow cases	41,416,435	32,099,010	21,421,807
Cotton blankets	92,077,330	98,060,112	91,519,600
Massachusetts	28,394,477	16,354,558	23,385,276

¹ Not reported separately.

United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925 — (Concluded)

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Cotton table damask, in the piece or otherwise	53,468,297	40,905,122	43,120,428
North Carolina	20,751,735	22,934,267	21,527,922
Bed spreads and quilts (crochet, marseilles, and satin)	52,636,525	35,690,784	31,827,991
North Carolina	13,773,647	8,111,401	— ¹
South Carolina	8,782,641	— ¹	— ¹
Cottonades and cotton worsteds	29,131,065	20,952,012	22,979,531
Pennsylvania	6,245,201	3,820,789	— ¹
Tapestries	15,737,233	20,683,704	10,414,035
Pennsylvania	10,351,338	7,771,051	7,829,032
Other woven goods (over 12 inches in width)	477,432,119	430,424,566	370,542,581
	Pounds	Pounds	Pounds
Yarns for sale	626,356,804	620,725,267	484,218,907
North Carolina	269,327,951	259,579,191	198,917,839
Georgia	96,851,514	86,553,515	68,827,236
Massachusetts	68,914,956	79,272,641	71,094,939
Alabama	48,183,619	34,068,864	30,921,330
South Carolina	50,469,439	38,402,586	27,615,439
Thread	37,585,368	31,645,537	23,275,618
Massachusetts	13,209,648	9,810,335	6,420,312
Cotton waste, produced for sale . .	417,094,448	378,640,237	271,775,280
Massachusetts	95,246,139	106,420,255	93,489,739
North Carolina	82,974,410	65,938,552	38,965,161
South Carolina	59,230,427	47,279,031	35,390,731

¹ Not reported separately.

Principal Classes of Cotton Goods produced by Sections, 1921, 1923 and 1925

				INCREASE OR DECREASE (PER CENT)	
	1925	1923	1921	1923 to 1925	1921 to 1923
<i>All Woven Goods (over 12 inches Wide)</i>					
United States:					
Square yards	7,741,568,028	8,264,219,579	6,703,835,942	-6.3	23.3
Value	\$1,245,139,031	\$1,398,901,764	\$956,731,860	-10.95	46.2
Cotton-growing States:					
Square yards	4,842,005,472	4,767,309,272	3,620,559,108	1.6	31.7
Value	\$653,000,522	\$706,513,963	\$422,341,753	-7.6	67.3
New England:					
Square yards	2,607,368,068	3,143,580,641	2,809,820,228	-17.1	11.9
Value	\$459,987,228	\$563,108,841	\$444,435,688	-18.3	26.7
<i>Sheetings</i>					
United States:					
Square yards	1,638,168,738	1,695,520,069	1,600,998,979	-3.9	5.9
Value	\$180,357,058	\$208,338,025	\$158,216,314	-13.5	31.7
Cotton-growing States:					
Square yards	1,318,671,398	1,305,829,140	1,195,389,693	1.0	9.2
Value	\$128,586,070	\$146,532,472	\$103,793,846	-12.2	41.2
New England:					
Square yards	270,166,289	329,035,866	352,571,097	-17.9	-6.7
Value	\$42,697,037	\$50,158,249	\$45,870,433	-14.9	9.3
<i>Lawns, Nainsooks, Cambrics and Similar Muslins</i>					
United States:					
Square yards	326,087,427	367,209,215	392,203,289	-11.2	-6.4
Value	\$43,323,433	\$57,277,453	\$58,408,313	-29.6	-1.9
Cotton-growing States:					
Square yards	105,498,813	87,501,636	78,278,961	20.6	11.8
Value	\$10,724,273	\$10,348,294	\$7,805,712	4.6	32.6
New England:					
Square yards	215,966,959	268,066,419	313,824,113	-24.1	-14.6
Value	\$31,906,552	\$46,371,298	\$50,501,560	-32.0	-8.2

**Principal Classes of Cotton Goods produced by Sections,
1921, 1923 and 1925 — (Concluded)**

	1925	1923	1921	INCREASE OR DECREASE (PER CENT)	
				1923 to 1925	1921 to 1923
<i>Twills, Sateens, etc.</i>					
United States:					
Square yards	532,830,805	489,380,066	384,635,533	9.0	27.2
Value	\$84,133,051	\$91,589,275	\$51,834,924	-8.1	76.7
Cotton-growing States:					
Square yards	227,710,989	160,479,897	109,560,311	41.8	46.5
Value	\$35,635,823	\$31,770,025	\$13,993,289	12.1	127.0
New England:					
Square yards	274,708,851	288,703,542	234,427,583	-4.9	23.2
Value	\$44,307,626	\$52,894,403	\$33,453,605	-16.3	58.1
<i>Tobacco, Cheese, Butter, Bunting and Bandage Cloths</i>					
United States:					
Square yards	451,633,354	402,312,139	274,255,642	12.3	46.7
Value	\$16,269,354	\$20,110,478	\$10,023,745	-19.1	100.6
Cotton-growing States:					
Square yards	123,937,084	137,418,047	98,068,082	-9.8	40.1
Value	\$4,450,282	\$5,195,907	\$2,723,156	-14.3	90.8
New England:					
Square yards	245,830,893	254,833,147	153,374,313	-3.5	66.2
Value	\$9,599,542	\$14,263,728	\$6,495,213	-32.8	119.6
<i>Yarns for Sale</i>					
United States:					
Pounds	626,356,804	620,725,267	484,218,907	.91	28.2
Value	\$313,060,245	\$348,684,605	\$218,555,043	-11.4	59.5
Cotton-growing States:					
Pounds	490,781,024	451,634,879	347,875,291	8.7	29.8
Value	\$233,256,323	\$232,994,306	\$128,267,472	.11	81.6
New England:					
Pounds	109,122,875	113,309,662	104,393,496	-3.7	8.5
Value	\$68,178,429	\$79,800,563	\$77,742,325	-14.6	2.6

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CARDED BROADCLOTHS (GRAY ONLY) ¹												
First quarter . . .	-	-	-	-	-	-	7,378	23,180	22,882	29,400	767	17,549
Second quarter . . .	-	-	-	-	-	-	8,156	25,877	22,924	16,360	3,720	10,985
Third quarter . . .	-	-	-	-	-	-	9,247	29,633	25,627	24,855	7,726	10,213
Fourth quarter . . .	-	-	-	-	-	-	9,145	30,714	32,779	31,203	5,661	8,637
Totals . . .	-	-	-	-	-	-	8,481	100,404	104,212	101,827	-	-
CHAMBRAYS												
First quarter . . .	11,114	40,536	31,859	25,267	23,618	12,507	12,106	45,744	42,558	55,963	17,901	29,354
Second quarter . . .	9,837	33,804	30,932	29,021	26,490	10,596	11,708	44,943	41,301	43,230	21,543	31,283
Third quarter . . .	8,237	28,532	40,319	63,159	14,703	33,436	11,096	39,218	41,145	42,296	19,616	32,434
Fourth quarter . . .	11,673	42,072	42,060	24,573	14,715	15,949	11,947	42,123	37,692	27,827	24,047	22,569
Totals . . .	10,220	144,944	145,170	142,020	-	-	11,714	172,028	162,696	169,316	-	-
CHEVIOTS												
First quarter . . .	3,626	12,400	8,620	6,624	13,495	5,058	3,783	12,054	12,036	17,777	10,802	11,365
Second quarter . . .	3,177	10,777	11,097	11,725	13,175	5,086	4,428	15,224	14,065	18,298	12,021	15,658
Third quarter . . .	2,645	9,741	13,699	15,707	9,217	7,694	4,919	16,363	19,181	16,514	9,203	12,991
Fourth quarter . . .	3,726	13,493	12,826	10,756	9,884	5,624	5,135	17,547	16,286	10,267	10,464	6,972
Totals . . .	3,293	46,411	46,242	44,812	-	-	4,566	62,088	61,508	62,856	-	-
DENIMS												
First quarter . . .	-	42,351	48,428	47,546	19,403	9,456	-	-	-	-	-	-
Second quarter . . .	-	39,449	37,559	35,809	21,293	7,766	-	-	-	-	-	-
Third quarter . . .	-	41,136	51,623	83,394	10,806	40,137	-	-	-	-	-	-
Fourth quarter . . .	-	49,327	47,768	44,247	12,365	36,016	-	-	-	-	-	-
Totals . . .	-	172,263	185,378	211,656	-	-	-	-	-	-	-	-

¹ January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

STATISTICAL

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	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DENIMS, WHITE BACK, 2.20 YARD												
First quarter	-	-	-	-	-	-	-	32,709	37,106	45,133	2,626	32,925
Second quarter	-	-	-	-	-	-	-	33,748	33,308	35,229	2,866	32,646
Third quarter	-	-	-	-	-	-	-	31,908	33,755	28,428	1,019	27,319
Fourth quarter	-	-	-	-	-	-	-	32,929	26,946	14,791	7,002	15,164
Totals	-	-	-	-	-	-	-	133,294	133,315	123,581	-	-
DENIMS, EXCLUDING WHITE BACK, 2.20 YARD												
First quarter	-	-	-	-	-	-	-	21,850	24,339	30,293	2,853	17,672
Second quarter	-	-	-	-	-	-	-	21,075	20,718	21,960	3,210	18,914
Third quarter	-	-	-	-	-	-	-	23,364	24,645	22,589	1,929	16,858
Fourth quarter	-	-	-	-	-	-	-	24,353	21,927	14,456	4,355	9,387
Totals	-	-	-	-	-	-	-	90,642	91,629	89,298	-	-
THREE-LEAF DRILLS, 40 INCHES AND NARROWER												
First quarter	3,687	16,719	16,843	13,849	7,718	3,275	2,343	11,527	12,722	14,348	4,340	3,397
Second quarter	2,741	10,978	7,669	6,009	11,027	1,615	2,037	10,662	10,932	11,472	4,070	3,937
Third quarter	2,030	8,744	13,750	15,895	6,021	3,760	1,994	9,349	10,746	9,426	2,673	2,617
Fourth quarter	2,107	9,718	10,204	8,215	5,535	1,771	1,335	9,994	6,716	6,421	5,951	2,322
Totals	2,641	46,159	48,466	43,968	-	-	1,927	41,532	41,116	41,667	-	-
DRILLS, 40 INCHES AND NARROWER, EXCLUDING THREE-LEAF												
First quarter	5,068	19,365	18,628	17,130	6,112	2,828	3,361	13,686	17,389	21,201	2,223	6,560
Second quarter	3,882	14,666	14,699	14,667	6,079	2,196	3,374	13,184	14,497	16,460	910	8,523
Third quarter	4,093	13,350	15,292	16,834	4,137	3,738	4,133	15,433	15,373	15,332	990	8,482
Fourth quarter	3,754	13,475	11,686	10,696	5,926	2,748	6,445	20,893	14,904	13,479	6,979	7,057
Totals	4,199	60,856	60,305	58,727	-	-	4,328	63,216	62,163	66,472	-	-

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DRILLS AND TWEELS, WIDER THAN 40 INCHES												
First quarter	—	7,666	7,003	3,141	1,005	2,637	—	6,780	7,185	7,276	1,257	3,188
Second quarter	—	5,020	3,808	2,641	2,217	1,470	—	6,897	6,019	6,482	2,135	3,651
Third quarter	—	4,378	5,067	5,761	1,528	2,161	—	5,942	5,267	4,517	2,810	2,901
Fourth quarter	—	5,013	4,879	5,812	1,662	3,097	—	5,715	4,336	5,939	4,189	4,304
Totals	—	22,077	20,757	17,355	—	—	—	25,334	22,807	24,214	—	—
COTTON DUCK, WIDE (POUNDS)												
First quarter	—	4,610,023	4,609,106	—	518,345	—	—	4,947,912	4,517,469	—	1,600,842	—
Second quarter	—	4,867,190	4,371,592	—	1,013,943	—	—	4,795,775	4,933,566	—	2,203,051	—
Third quarter	—	3,688,115	3,415,814	—	1,286,274	—	—	4,280,283	3,718,446	—	2,704,880	—
Fourth quarter	—	4,259,925	4,375,800	—	1,170,399	—	—	4,702,579	3,947,574	—	3,519,894	—
Totals	—	17,425,283	16,772,312	—	—	—	—	18,726,550	16,377,055	—	—	—
ALL SAIL DUCK (POUNDS)												
First quarter	—	777,552	809,033	—	195,025	—	—	1,012,020	956,154	—	241,849	—
Second quarter	—	763,249	693,125	—	265,149	—	—	795,908	710,741	—	327,016	—
Third quarter	—	547,915	560,701	—	252,273	—	—	764,826	691,586	—	397,256	—
Fourth quarter	—	709,779	776,069	—	185,983	—	—	737,957	645,472	—	489,741	—
Totals	—	2,798,495	2,839,018	—	—	—	—	3,310,711	3,006,953	—	—	—
ALL ARMY DUCK (POUNDS)												
First quarter	—	2,868,536	2,852,769	—	386,056	—	—	3,313,321	3,513,739	—	254,434	—
Second quarter	—	2,686,254	2,430,414	—	641,896	—	—	3,107,546	3,222,325	—	139,655	—
Third quarter	—	2,426,424	2,402,031	—	466,289	—	—	3,202,917	3,207,074	—	461,498	—
Fourth quarter	—	3,109,501	3,120,938	—	454,852	—	—	3,246,871	2,932,949	—	775,420	—
Totals	—	10,890,715	10,806,152	—	—	—	—	13,196,655	12,876,087	—	—	—

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
HOSE AND BELTING, DUCK (POUNDS)												
First quarter	-	8,882,018	8,921,291	-	274,218	-	-	8,571,597	8,658,594	-	344,423	-
Second quarter	-	7,690,430	7,654,405	-	310,243	-	-	7,983,851	7,890,693	-	437,581	-
Third quarter	-	8,092,187	8,124,695	-	277,735	-	-	7,529,795	7,526,872	-	440,504	-
Fourth quarter	-	10,163,605	10,009,920	-	431,420	-	-	8,198,619	8,255,685	-	403,438	-
Totals	-	34,828,240	34,710,314	-	-	-	-	32,283,862	32,311,844	-	-	-
SINGLE FILLING FLAT DUCKS, 29 INCHES, 8 OUNCES												
First quarter	-	-	-	-	-	-	-	6,993	6,482	-	11,644	-
Second quarter	-	-	-	-	-	-	-	9,122	12,410	-	5,426	7,540
Third quarter	-	-	-	-	-	-	-	5,686	2,026	-	1,997	556
Fourth quarter	-	-	-	-	-	-	-	-	-	-	2,271	801
Totals	-	-	-	-	-	-	-	21,801	20,918	-	19,341	-
SINGLE FILLING FLAT DUCKS, EXCLUDING 29 INCHES, 8 OUNCES												
First quarter	-	-	-	-	-	-	-	9,344	9,433	-	13,499	-
Second quarter	-	-	-	-	-	-	-	7,950	9,240	-	2,077	11,228
Third quarter	-	-	-	-	-	-	-	8,085	5,597	-	4,809	4,065
Fourth quarter	-	-	-	-	-	-	-	-	-	-	-	3,277
Totals	-	-	-	-	-	-	-	25,379	24,270	-	20,385	-
DOUBLE FILLING FLAT DUCKS												
First quarter	-	-	-	-	-	-	-	3,693	3,155	-	3,129	-
Second quarter	-	-	-	-	-	-	-	2,797	2,362	-	1,560	1,697
Third quarter	-	-	-	-	-	-	-	2,420	1,841	-	2,123	1,895
Fourth quarter	-	-	-	-	-	-	-	-	-	-	-	1,177
Totals	-	-	-	-	-	-	-	8,910	7,358	-	6,812	-

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CANTON FLANNELS, FOR THE MITTEN TRADE												
First quarter	.	—	—	—	—	—	—	9,671	11,047	18,949	3,956	10,769
Second quarter	—	—	—	—	—	—	—	10,194	10,873	8,058	3,276	7,953
Third quarter	—	—	—	—	—	—	—	8,803	9,618	9,023	2,461	7,356
Fourth quarter	—	—	—	—	—	—	—	11,044	11,334	16,903	2,171	12,925
Totals	—	—	—	—	—	—	—	39,712	42,873	52,931	—	—
GINGHAMS, CLASS A												
First quarter	956	2,767	5,874	5,613	8,055	1,162	1,287	3,926	7,040	8,323	3,967	2,542
Second quarter	1,171	3,607	6,911	4,239	10,071	7,710	1,517	4,931	5,566	6,132	3,352	3,108
Third quarter	719	1,772	3,724	4,434	9,019	1,440	1,146	3,385	3,574	1,802	3,163	1,336
Fourth quarter	629	1,668	3,606	3,425	7,081	1,259	1,280	3,602	2,733	2,789	4,092	1,392
Totals	869	9,814	13,895	13,731	—	—	1,308	15,924	18,913	19,046	—	—
GINGHAMS, CLASS B												
First quarter	4,860	15,106	17,467	18,487	12,582	5,887	4,326	13,656	15,225	21,240	5,758	13,353
Second quarter	3,956	12,522	15,492	13,524	9,612	3,919	4,240	13,890	11,949	15,660	7,699	17,064
Third quarter	4,264	13,059	14,768	18,894	7,903	8,045	4,305	13,939	14,186	9,072	7,452	11,950
Fourth quarter	4,820	14,359	15,535	14,828	7,327	7,338	4,090	13,231	10,651	7,102	10,632	9,001
Totals	4,475	55,646	63,262	65,733	—	—	4,233	54,716	51,411	53,074	—	—
GINGHAMS, CLASS C												
First quarter	10,867	27,041	32,135	32,844	27,589	20,046	11,834	31,944	37,960	41,615	18,027	20,151
Second quarter	12,429	32,440	33,356	28,984	26,673	15,674	12,007	33,503	28,901	32,320	22,629	23,570
Third quarter	10,000	26,789	32,151	33,267	21,311	16,790	9,377	26,563	29,548	30,224	19,644	24,246
Fourth quarter	10,541	28,260	25,528	25,234	24,043	16,496	9,505	26,990	28,779	17,626	17,855	13,093
Totals	10,959	114,530	123,170	120,329	—	—	10,681	119,000	125,188	121,785	—	—

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

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	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
GINGHAMS, CLASS D												
First quarter	1,518	2,429	3,145	3,320	8,897	1,369	1,620	2,916	4,946	5,489	4,729	1,338
Second quarter	1,684	2,952	3,143	2,486	8,706	712	1,520	3,171	2,660	2,827	5,240	1,555
Third quarter	931	1,378	2,491	3,172	7,593	1,393	1,185	2,229	2,203	1,782	5,266	1,134
Fourth quarter	1,569	2,904	3,738	3,140	6,759	795	1,069	2,168	2,714	2,910	4,720	1,330
Totals	1,425	9,663	12,517	12,118	—	—	1,349	10,484	12,523	13,053	—	—
GINGHAMS, CLASS E												
First quarter	812	1,122	1,631	1,846	3,171	684	1,071	1,734	2,677	2,764	3,455	474
Second quarter	1,446	2,030	1,351	1,977	3,850	310	1,247	1,838	1,318	1,087	3,975	243
Third quarter	1,202	1,429	1,203	1,408	4,076	515	890	1,078	1,563	1,569	3,490	249
Fourth quarter	1,150	1,676	1,354	1,226	4,398	387	626	1,020	1,063	1,146	3,447	332
Totals	1,152	6,257	5,539	5,457	—	—	958	5,670	6,621	6,566	—	—
JEANS ¹												
First quarter	1,893	5,927	6,192	5,596	2,824	937	2,461	7,653	8,052	10,265	407	4,005
Second quarter	1,655	4,799	4,650	4,173	2,973	460	2,519	7,922	7,783	8,693	546	4,915
Third quarter	1,333	3,685	5,502	6,614	1,156	1,572	2,664	8,442	8,355	7,086	633	4,246
Fourth quarter	1,905	5,811	6,101	6,381	806	1,792	2,933	9,167	3,828	5,565	3,972	3,983
Totals	1,696	20,222	22,505	22,764	—	—	2,644	33,184	30,018	32,209	—	—
KHAKE, TWILLS												
First quarter	—	—	—	—	—	—	—	6,054	7,153	7,652	1,822	4,503
Second quarter	—	—	—	—	—	—	—	9,126	7,006	6,476	3,942	3,973
Third quarter	—	—	—	—	—	—	—	6,732	4,839	5,832	5,835	3,966
Fourth quarter	—	—	—	—	—	—	—	4,135	5,443	3,860	4,527	2,383
Totals	—	—	—	—	—	—	—	26,047	24,441	22,820	—	—

¹ 1926 figures for Gray cloths only.

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	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
KHAKI, DRILLS												
First quarter . . .	—	—	—	—	—	—	—	1,821	2,001	2,900	689	1,172
Second quarter . . .	—	—	—	—	—	—	—	2,596	2,566	3,215	719	1,821
Third quarter . . .	—	—	—	—	—	—	—	2,871	2,818	2,600	772	1,663
Fourth quarter . . .	—	—	—	—	—	—	—	2,863	2,625	—	1,010	1,651
Totals . . .	—	—	—	—	—	—	—	10,151	10,010	11,388	—	—
KHAKI, JEANS												
First quarter . . .	—	—	—	—	—	—	—	3,050	3,326	4,105	697	1,730
Second quarter . . .	—	—	—	—	—	—	—	4,083	4,248	5,531	533	3,013
Third quarter . . .	—	—	—	—	—	—	—	4,303	3,761	3,592	1,075	2,754
Fourth quarter . . .	—	—	—	—	—	—	—	4,054	3,657	3,951	1,472	3,048
Totals . . .	—	—	—	—	—	—	—	15,491	14,992	17,089	—	—
OSNABURGS, 30 INCHES, 7 OUNCES ¹												
First quarter . . .	1,997	16,060	16,937	20,964	5,284	10,177	1,712	14,476	14,910	15,371	453	10,767
Second quarter . . .	1,941	15,222	19,918	18,083	588	8,942	1,910	15,893	15,814	10,565	532	5,518
Third quarter . . .	1,966	15,625	13,731	8,162	2,482	3,373	1,962	15,870	12,055	8,042	4,347	1,505
Fourth quarter . . .	1,577	12,928	14,523	21,456	887	10,306	1,478	11,422	11,392	11,391	4,377	1,504
Totals . . .	1,870	59,835	65,109	69,265	—	—	1,773	57,661	54,171	45,369	—	—
TOTAL OSNABURGS, EXCLUDING 30 INCHES, 7 OUNCES ¹												
First quarter . . .	1,109	6,126	6,074	6,105	2,049	4,056	2,425	17,161	16,795	16,779	2,141	8,534
Second quarter . . .	1,338	8,163	8,680	7,219	1,532	2,595	2,633	16,153	15,806	16,477	2,488	9,205
Third quarter . . .	1,554	9,462	9,556	14,877	1,438	7,916	2,316	13,672	13,985	14,310	2,175	9,580
Fourth quarter . . .	1,353	11,991	11,651	12,288	1,775	8,550	2,968	18,132	15,398	10,859	4,909	4,991
Totals . . .	1,488	35,742	35,964	40,489	—	—	2,585	65,118	61,984	58,425	—	—

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	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PAJAMA CHECKS, 36½ INCHES, 72/80, 4.70 YARD ¹												
First quarter	—	9,591	9,837	23,152	144	17,655	—	11,312	10,984	5,491	3,843	4,152
Second quarter	—	14,278	13,523	13,792	899	17,924	—	8,205	6,079	6,997	5,969	5,070
Third quarter	—	16,203	11,694	13,975	2,408	17,205	—	7,461	9,821	7,798	3,609	3,047
Fourth quarter	—	16,753	15,616	8,086	3,515	9,615	—	8,069	10,412	9,813	1,206	2,448
Totals	—	56,825	53,709	59,005	—	—	—	34,987	37,296	30,099	—	—
PAJAMA CHECKS, EXCLUDING 36½ INCHES, 72/80, 4.70 YARD ¹												
First quarter	—	4,889	5,221	10,383	1,073	6,498	—	10,588	10,902	8,030	428	3,128
Second quarter	—	5,740	5,312	7,331	1,501	8,520	—	10,518	9,026	14,462	1,920	8,564
Third quarter	—	6,901	7,812	8,656	590	9,364	—	9,785	9,655	4,824	2,010	3,693
Fourth quarter	—	7,527	7,375	4,011	742	6,000	—	8,977	8,888	7,027	—	1,832
Totals	—	25,057	25,720	30,381	—	—	—	39,868	38,511	34,343	—	—
PLAIDS, 4.50 AND LIGHTER												
First quarter	680	2,528	1,374	1,070	3,226	411	527	1,818	2,176	3,291	3,544	1,599
Second quarter	456	1,464	437	633	4,333	687	378	1,408	2,150	5,319	2,802	4,768
Third quarter	832	2,819	4,173	5,043	2,979	1,557	750	2,762	4,160	2,942	1,404	3,550
Fourth quarter	788	2,808	1,885	812	3,902	484	1,073	4,379	3,170	727	2,613	1,107
Totals	689	9,619	7,789	7,558	—	—	682	10,367	11,656	12,279	—	—
PRINT CLOTH FANCIES ¹												
First quarter	7,010	15,732	15,738	17,576	2,269	11,620	8,362	20,050	22,227	24,313	1,032	18,477
Second quarter	6,932	15,626	14,719	16,117	3,176	13,018	8,750	21,505	20,970	23,298	1,567	20,805
Third quarter	6,794	15,335	15,345	14,129	3,166	11,802	11,635	20,046	26,688	29,230	3,925	23,347
Fourth quarter	7,305	16,237	16,194	20,783	3,209	16,391	11,170	29,332	29,388	20,603	3,869	14,562
Totals	7,010	62,930	61,996	68,605	—	—	9,979	99,933	99,273	97,444	—	—

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1926							1927						
THOUSANDS OF YARDS							THOUSANDS OF YARDS						
Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End		Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	
PRINT CLOTHS NARROWER THAN 36 INCHES — 27 INCHES, 64/60, 7.60 YARD ¹													
First quarter	3,906	13,832	12,839	11,789	5,753	3,127	3,639	13,377	19,014	21,427	891	5,651	
Second quarter	4,328	14,444	13,678	11,909	6,519	1,358	3,466	12,163	12,633	13,476	421	6,494	
Third quarter	4,064	12,522	14,063	15,212	4,078	1,607	4,007	15,581	15,631	16,704	371	7,567	
Fourth quarter	3,823	12,894	10,444	12,075	6,528	3,238	4,144	15,596	12,938	7,383	3,029	2,012	
Totals	4,030	53,092	51,924	50,985	—	—	3,814	56,717	60,216	58,990	—	—	
PRINT CLOTHS NARROWER THAN 36 INCHES — EXCLUDING 27 INCHES, 64/60, 7.60 YARD ¹													
First quarter	3,946	15,437	14,252	12,223	8,541	1,800	3,030	11,994	11,719	15,785	2,169	6,445	
Second quarter	3,014	10,642	12,574	12,142	6,609	1,368	2,958	11,677	10,996	10,243	2,850	5,692	
Third quarter	2,132	7,380	12,294	13,063	1,695	2,137	6,024	22,066	20,392	34,640	4,524	19,940	
Fourth quarter	2,415	9,146	8,917	9,159	1,924	2,379	10,390	38,330	31,801	22,714	11,053	10,853	
Totals	2,876	42,605	38,037	46,587	—	—	5,600	84,037	74,908	83,382	—	—	
PRINT CLOTHS 36 INCHES AND WIDER — 38½ INCHES, 64/60, 5.35 YARD ¹													
First quarter	—	65,388	63,040	53,526	8,990	20,780	19,793	70,735	72,348	72,339	4,946	34,986	
Second quarter	—	55,338	54,800	42,713	9,328	8,693	16,866	60,131	61,261	56,339	3,816	30,664	
Third quarter	—	59,123	64,699	81,218	3,952	23,212	17,714	63,284	64,578	68,285	2,522	34,371	
Fourth quarter	—	60,868	58,261	68,044	6,559	34,995	22,479	80,237	78,492	75,331	4,267	31,210	
Totals	—	240,717	240,800	245,501	—	—	19,213	274,387	276,679	272,894	—	—	
PRINT CLOTHS 36 INCHES AND WIDER — 39 INCHES, 68/72, 4.75 YARD ¹													
First quarter	—	38,758	33,982	26,253	5,448	7,167	10,429	27,972	35,193	38,478	485	16,144	
Second quarter	—	30,922	22,832	17,091	13,538	1,426	9,751	25,704	25,076	28,144	1,113	19,212	
Third quarter	—	27,432	30,678	38,887	10,292	9,635	14,500	40,165	40,295	38,870	983	17,787	
Fourth quarter	—	29,166	31,752	34,976	7,706	12,859	17,566	49,616	45,943	38,305	4,656	10,149	
Totals	—	126,278	119,244	117,207	—	—	13,061	143,457	146,507	143,797	—	—	

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	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PRINT CLOTHS, 36 INCHES AND WIDER, EXCLUDING 38½ INCHES, 64/60, 5-35 YARD, AND 39 INCHES, 68/72, 4-75 YARD ¹												
First quarter . . .	—	81,079	79,967	67,349	9,214	15,724	19,651	77,782	89,108	96,327	5,023	41,119
Second quarter . . .	—	79,195	59,249	51,632	29,160	8,107	22,000	87,428	82,075	87,069	10,376	40,713
Third quarter . . .	—	78,747	93,536	113,276	14,371	27,847	29,589	116,589	106,897	134,555	20,068	74,351
Fourth quarter . . .	—	78,831	76,853	82,906	16,349	33,900	37,061	148,772	137,391	128,354	31,449	65,314
Totals . . .	—	317,852	309,605	315,163	—	—	27,075	430,571	415,471	446,885	—	—
HEAVY WARP SATEENS												
First quarter . . .	1,243	3,854	3,946	3,555	1,279	792	1,720	6,127	5,976	6,426	649	1,952
Second quarter . . .	839	2,486	2,256	2,094	1,509	630	1,521	5,268	4,953	5,605	964	2,604
Third quarter . . .	830	2,637	3,875	5,273	271	2,028	1,251	4,029	4,070	3,005	923	1,539
Fourth quarter . . .	1,370	5,093	4,866	4,340	498	1,502	1,282	4,616	4,147	4,802	1,392	2,194
Totals . . .	1,070	14,070	14,943	15,262	—	—	1,443	20,040	19,146	19,838	—	—
SATEENS, WIDER THAN 40 INCHES												
First quarter . . .	—	6,630	5,629	6,491	1,119	6,851	—	3,791	3,996	2,846	2,329	2,291
Second quarter . . .	—	4,239	2,609	1,188	2,749	5,430	—	2,624	2,828	2,692	2,125	2,155
Third quarter . . .	—	3,348	3,348	3,006	2,749	5,088	—	2,519	3,381	3,730	1,263	2,504
Fourth quarter . . .	—	3,502	3,717	2,070	2,534	3,441	—	2,848	2,564	1,986	1,547	1,926
Totals . . .	—	17,719	15,303	12,755	—	—	—	11,782	12,769	11,254	—	—
SHEETINGS, WIDER THAN 40 INCHES												
First quarter . . .	—	6,983	7,768	5,969	1,126	2,947	—	7,430	8,983	11,196	3,326	5,747
Second quarter . . .	—	7,213	5,380	4,096	2,939	1,963	—	8,160	8,246	9,036	3,240	6,537
Third quarter . . .	—	6,701	5,960	5,694	4,100	1,797	—	8,593	8,331	6,140	3,462	4,346
Fourth quarter . . .	—	7,653	6,254	7,991	4,879	3,534	—	7,477	7,461	9,224	3,478	6,109
Totals . . .	—	27,930	24,962	23,750	—	—	—	31,620	33,021	35,596	—	—

¹ January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15s INCLUSIVE) 40 INCHES, 48/48, 2.85 YARD												
First quarter . . .	1,899	7,264	8,875	7,840	315	2,842	3,063	12,434	12,341	15,558	412	7,530
Second quarter . . .	2,538	9,739	8,184	6,193	1,870	851	2,955	12,867	12,039	9,218	1,240	4,709
Third quarter . . .	2,037	7,850	8,373	9,836	1,347	2,314	2,569	11,511	11,813	11,199	1,199	4,970
Fourth quarter . . .	1,867	7,138	8,165	10,165	319	4,313	2,990	12,507	11,520	10,426	2,186	3,876
Totals . . .	2,085	31,991	33,598	34,034	—	—	2,894	49,319	47,432	47,015	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15s INCLUSIVE) EXCLUDING 40 INCHES, 48/48, 2.85 YARD												
First quarter . . .	2,970	12,765	14,648	13,106	4,981	2,056	2,874	12,099	16,421	17,686	3,942	3,754
Second quarter . . .	3,553	13,181	9,924	9,254	8,238	1,386	2,940	12,119	13,539	15,228	2,522	5,443
Third quarter . . .	3,141	12,277	14,276	16,053	6,239	3,163	3,713	15,353	14,902	14,146	3,173	4,087
Fourth quarter . . .	3,474	14,002	11,977	11,303	8,264	2,489	4,253	16,940	12,184	12,388	7,929	4,891
Totals . . .	3,284	52,225	50,825	49,716	—	—	3,445	56,711	57,046	59,448	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16s TO 21s INCLUSIVE) 36 TO 37 INCHES, 48/48, 4.00 YARD												
First quarter . . .	3,638	15,483	15,111	15,222	3,276	3,030	4,248	17,618	20,740	22,998	1,783	8,653
Second quarter . . .	3,498	10,780	11,135	13,568	2,921	3,463	4,529	20,537	20,172	22,304	2,148	10,785
Third quarter . . .	5,051	19,470	20,756	22,012	1,635	6,719	4,319	19,276	18,897	14,373	2,527	6,261
Fourth quarter . . .	4,808	18,416	15,146	14,822	4,905	6,395	4,078	17,681	10,739	8,565	9,469	4,057
Totals . . .	4,174	64,149	62,148	65,624	—	—	4,293	75,112	70,548	68,240	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16s TO 21s INCLUSIVE) EXCLUDING 36 TO 37 INCHES, 48/48, 4.00 YARD												
First quarter . . .	4,828	23,296	22,122	19,588	3,471	3,333	5,161	25,169	26,795	29,749	3,895	9,819
Second quarter . . .	4,406	18,821	17,207	15,998	5,085	2,124	4,582	22,350	22,504	25,694	3,342	12,610
Third quarter . . .	3,485	17,227	19,227	22,072	1,946	6,969	4,746	22,500	22,157	18,027	3,685	8,480
Fourth quarter . . .	5,186	23,230	19,655	19,551	5,521	6,865	5,310	25,569	17,818	19,632	11,436	10,294
Totals . . .	4,404	79,435	76,211	77,209	—	—	4,950	95,588	89,673	93,102	—	—

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21S), 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD												
First quarter . . .	3,177	17,469	26,118	35,624	4,436	19,750	4,645	24,541	29,380	34,012	2,299	22,478
Second quarter . . .	5,189	27,173	30,412	25,379	1,197	14,717	5,202	28,476	28,363	22,470	2,412	16,583
Third quarter . . .	6,403	33,552	30,016	26,938	4,733	11,639	5,512	29,008	28,104	24,159	3,316	12,640
Fourth quarter . . .	5,097	26,810	24,405	30,582	7,138	17,816	4,713	23,676	18,830	13,970	8,162	7,780
Totals . . .	4,981	105,004	110,951	118,523	—	—	5,018	105,701	104,677	94,641	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21S), EXCLUDING 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD												
First quarter . . .	17,124	73,059	80,908	82,294	4,673	20,316	17,810	77,722	91,152	106,322	11,713	32,480
Second quarter . . .	17,687	77,727	68,900	60,601	13,500	12,017	17,634	75,219	74,913	85,431	12,019	42,998
Third quarter . . .	17,572	72,190	75,538	88,946	10,152	25,425	17,563	75,851	78,956	68,310	8,914	32,352
Fourth quarter . . .	18,464	80,529	65,538	57,423	25,143	17,310	20,479	86,123	63,057	71,127	31,980	40,422
Totals . . .	17,637	303,505	290,884	289,264	—	—	18,371	314,915	308,078	331,190	—	—
WIDE BROWN SHEETINGS, 45 INCHES ¹												
First quarter . . .	—	—	—	—	—	—	—	1,097	1,446	1,509	679	282
Second quarter . . .	—	—	—	—	—	—	—	1,080	944	929	815	267
Third quarter to July 23	—	—	—	—	—	—	—	1,145	220	233	740	280
July 23 to December 31	—	—	—	—	—	—	—	7,289	7,698	6,404	2,135	207
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, 72 INCHES ¹												
First quarter . . .	—	—	—	—	—	—	—	2,212	2,134	2,758	3,825	1,146
Second quarter . . .	—	—	—	—	—	—	—	2,101	2,828	3,157	3,098	1,475
Third quarter to July 23	—	—	—	—	—	—	—	427	578	569	2,947	1,466
July 23 to December 31	—	—	—	—	—	—	—	7,940	9,369	7,807	1,857	376
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—

¹ January to July 23 collected by Association of Cotton Textile Merchants of New York; balance of year by The Cotton-Textile Institute, Inc.

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
WIDE BROWN SHEETINGS, 81 INCHES ¹												
First quarter . . .	—	—	—	—	—	—	—	4,925	5,306	5,998	5,994	1,831
Second quarter . . .	—	—	—	—	—	—	—	4,871	4,654	4,947	6,211	2,124
Third quarter to July 23 . . .	—	—	—	—	—	—	—	987	1,148	1,058	6,050	2,034
July 23 to December 31 . . .	—	—	—	—	—	—	—	13,228	16,645	14,654	3,809	764
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, 90 INCHES ¹												
First quarter . . .	—	—	—	—	—	—	—	7,798	10,218	10,807	5,411	2,252
Second quarter . . .	—	—	—	—	—	—	—	8,550	8,041	8,860	5,920	3,071
Third quarter to July 23 . . .	—	—	—	—	—	—	—	1,711	1,985	2,304	5,646	3,390
July 23 to December 31 . . .	—	—	—	—	—	—	—	29,526	33,216	28,357	6,064	987
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, EXCLUDING 45 INCHES, 72 INCHES, 81 INCHES AND 90 INCHES ¹												
First quarter . . .	—	—	—	—	—	—	—	4,788	4,488	5,451	7,094	6,904
Second quarter . . .	—	—	—	—	—	—	—	4,803	4,399	7,989	10,494	10,494
Third quarter to July 23 . . .	—	—	—	—	—	—	—	949	1,058	974	7,389	10,410
July 23 to December 31 . . .	—	—	—	—	—	—	—	17,177	20,743	8,910	6,214	4,331
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
BED TICKINGS, CLASS A, 32 INCHES, 2.00 YARD												
First quarter . . .	—	—	—	—	—	—	—	3,065	3,210	3,704	940	832
Second quarter . . .	—	—	—	—	—	—	—	2,594	2,390	2,985	1,144	1,427
Third quarter . . .	—	—	—	—	—	—	—	2,559	3,169	2,837	534	1,095
Fourth quarter . . .	—	—	—	—	—	—	—	3,033	2,318	2,026	1,249	803
Totals . . .	—	—	—	—	—	—	—	11,251	11,087	11,552	—	—

¹ January to July 23 collected by Association of Cotton Textile Merchants of New York; balance of year by The Cotton-Textile Institute, Inc.

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
BED TICKINGS, EXCLUDING CLASS A, 32 INCHES, 2.00 YARD												
First quarter . . .	—	—	—	—	—	—	—	3,483	3,153	4,254	2,452	1,555
Second quarter . . .	—	—	—	—	—	—	—	3,347	3,602	4,372	2,197	2,325
Third quarter . . .	—	—	—	—	—	—	—	3,278	3,921	3,494	1,554	1,898
Fourth quarter . . .	—	—	—	—	—	—	—	3,880	3,043	2,435	2,391	1,290
Totals . . .	—	—	—	—	—	—	—	13,988	13,719	14,555	—	—
FOUR-LEAF TWILLS												
First quarter . . .	2,237	9,201	9,236	7,164	4,750	1,171	2,606	9,829	11,413	14,194	942	6,709
Second quarter . . .	1,790	6,217	5,256	4,669	5,711	584	2,904	11,482	11,358	11,961	1,066	7,312
Third quarter . . .	1,184	4,090	6,523	8,605	3,278	2,666	3,113	11,747	11,393	9,031	1,420	4,950
Fourth quarter . . .	1,805	6,669	7,421	8,683	2,526	3,928	3,277	12,676	8,448	7,486	5,648	3,988
Totals . . .	1,754	26,177	28,436	29,121	—	—	2,975	45,734	42,612	42,672	—	—
POCKETING TWILLS												
First quarter . . .	1,827	4,594	4,216	3,227	4,361	490	2,002	4,678	4,851	8,643	161	5,150
Second quarter . . .	945	2,249	3,375	3,584	3,235	699	3,131	7,055	6,744	6,585	472	4,991
Third quarter . . .	964	2,321	4,230	5,074	1,326	1,543	3,136	7,203	5,850	3,711	1,825	2,852
Fourth quarter . . .	1,115	2,667	3,659	3,474	334	1,358	1,976	4,638	3,526	2,013	2,937	1,339
Totals . . .	1,213	11,831	15,480	15,359	—	—	2,561	23,574	20,971	20,952	—	—

Production, Shipments, Sales, Stocks and Orders of Soft Yarns — All Numbers, Single and Ply (Class A)

[Based on 59 identical mills (prior to November 26, on 55 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927		Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
			Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
September 24	. .	612,627	1,574	—	—	3,300	12,940
October 1	. .	634,446	1,620	1,800	1,768	3,120	12,908
October 8	. .	619,437	1,575	1,669	923	3,026	12,162
October 15	. .	624,479	1,547	1,506	1,382	3,067	12,038
October 22	. .	633,913	1,611	1,729	1,733	2,949	12,042
October 29	. .	643,949	1,631	1,617	1,507	2,963	11,932
November 5	. .	651,132	1,664	1,627	1,522	3,000	11,827
November 12	. .	664,033	1,669	1,599	2,764	3,070	12,992
November 19	. .	673,262	1,701	1,580	1,188	3,191	12,600
November 26	. .	923,384	1,885	—	—	3,387	16,452
December 3	. .	936,677	2,184	2,216	2,648	3,355	16,884
December 10	. .	914,317	2,070	1,947	2,432	3,478	17,369
December 17	. .	929,748	2,159	1,791	2,846	3,846	18,424
December 24	. .	695,703	1,381	1,163	926	4,064	18,187
December 31	. .	529,224	982	956	1,721	4,090	18,952

Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 18's and Coarser (Class B)

[Based on 58 identical mills (prior to November 26, on 52 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro-duction	Ship-ments	Sales	Stock on Hand	Unfilled Orders
September 24 . .	358,366	1,254	—	—	3,590	7,834
October 1 . .	348,177	1,228	1,343	1,321	3,475	7,812
October 8 . .	351,572	1,257	1,234	844	3,498	7,422
October 15 . .	354,545	1,228	1,163	1,047	3,563	7,306
October 22 . .	359,387	1,252	1,270	1,579	3,545	7,615
October 29 . .	359,295	1,259	1,174	1,709	3,630	8,150
November 5 . .	354,660	1,236	1,349	1,314	3,517	8,115
November 12 . .	342,607	1,266	1,273	1,430	3,510	8,272
November 19 . .	349,908	1,256	1,251	1,133	3,515	8,154
November 26 . .	443,915	1,400	—	—	4,197	10,981
December 3 . .	438,602	1,526	1,556	1,450	4,167	10,875
December 10 . .	424,685	1,516	1,560	2,230	4,123	11,545
December 17 . .	418,966	1,602	1,504	1,708	4,221	11,749
December 24 . .	411,682	1,377	1,448	1,703	4,150	12,004
December 31 . .	290,774	802	742	883	4,210	12,145

Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 20's and Finer (Class C)

[Based on 70 identical mills (prior to November 26, on 64 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
September 24 . .	913,662	1,341	—	—	3,070	6,903
October 1 . .	904,714	1,362	1,238	1,062	3,194	6,727
October 8 . .	879,893	1,340	1,310	1,703	3,224	7,120
October 15 . .	874,629	1,284	1,141	1,050	3,367	7,029
October 22 . .	891,390	1,317	1,318	1,357	3,366	7,068
October 29 . .	890,789	1,318	1,112	1,182	3,572	7,138
November 5 . .	896,464	1,338	1,412	1,309	3,498	7,035
November 12 . .	887,768	1,319	1,186	1,093	3,631	6,942
November 19 . .	882,367	1,226	1,130	1,008	3,727	6,820
November 26 . .	917,109	1,202	—	—	3,996	7,259
December 3 . .	956,573	1,364	1,221	961	4,139	6,999
December 10 . .	985,993	1,327	1,045	776	4,421	6,730
December 17 . .	896,495	1,329	1,206	2,426	4,544	7,950
December 24 . .	837,457	1,048	890	1,705	4,702	8,765
December 31 . .	417,680	493	615	868	4,580	9,018

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed. The table on imports expressed in terms of value includes all the imports of manufactures of cotton.

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Cotton thread and yarn:										
Thread and yarns, warps or warp yarn, on beams, in skeins, etc. (pounds)	3,936,481	3,861,968	10,629,645	3,140,102	5,426,987	5,269,351	3,733,422	3,618,657	3,661,164	3,304,737
Sewing thread, crochet, darning and knitting cotton (100 pounds)	-	41,938,565	83,331,972	45,966,524	51,803,837	42,326,041	38,983,528	29,902,175	21,889,760	21,376,539
Cloths:										
Unbleached (square yards)	6,587,809	19,732,441	50,408,634	16,355,537	23,028,859 ¹	95,186,119 ²	111,729,968	75,397,414	33,114,973	27,450,922
Bleached (square yards)	5,938,830	9,434,881	23,923,795	22,582,543	17,863,670 ¹	14,888,305 ²	5,703,554	4,831,677	5,236,245	10,146,429
Colored, dyed, printed and woven-figured (square yards)	-	-	-	-	-	108,895,883 ²	56,952,132 ³	29,020,042 ³	22,328,939 ³	25,404,596 ³
Dyed in the piece (square yards)	11,866,779	11,577,432	38,746,021	39,927,187	41,894,470 ¹	-	-	-	-	-
Printed (square yards)	2,606,832	3,725,381	13,611,021	8,927,300	11,251,896 ¹	-	-	-	-	-
All other (square yards)	5,839,319	5,283,316	14,098,894	18,528,011	15,599,198 ¹	-	-	-	-	-
Total cloths (square yards)	32,839,569	49,753,451	140,788,365	106,330,598	109,648,093 ¹	218,970,307 ²	177,385,654	109,249,133	60,680,157	63,001,947
Laces, embroideries, etc., and articles made thereof (except wearing apparel):										
Embroideries, including edgings, insertings, and galloons (yards)	-	7,586,004	24,889,980	29,885,458	24,012,100 ¹	-	-	-	-	-
Lace window curtains (square yards)	-	362,318	1,426,213	901,634	1,729,452	1,953,433	1,363,581	1,290,069	1,463,781	2,338,179
Pile fabrics and Terry-woven fabrics (square yards)	357,693	433,335	1,038,664	307,582	121,785 ¹	364,516 ²	431,461 ²	555,201 ²	-	-
Tapestries and Jacquard figured upholstery goods (square yards)	-	1,241,506	9,280,403	2,846,356	1,675,494 ¹	734,838 ²	1,224,372 ²	1,943,460 ²	-	-
Waste or flocks (pounds)	1,267,336	2,121,663	9,090,767	4,861,682	28,399,261	77,022,352	33,604,041	36,393,055	29,735,862	24,729,741
Wearing apparel:										
Knit goods:										
Gloves (dozen pairs)	-	181,239	386,414	1,114,080	1,774,978	1,158,420	1,364,980	1,659,131	2,111,429	2,189,618
Hosiery (dozen pairs)	116,310	65,955	228,285	756,028	1,357,602	611,718	550,959	563,246	497,258	527,909
All other knit goods (dozens)	-	52,850	21,951	31,522	10,528	111,337	105,823	85,998	83,698	163,263

¹ January 1 to September 21, after which new tariff law is in effect.

² Estimated.

³ Not separately classified under new tariff law.

⁴ Pounds only reported after September 21, 1922.
⁵ Quantity not available.

NOTE. — Where no figures are given for the earlier years (as for sewing thread, crochet, darning and knitting cotton prior to 1919) the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no imports of such items if no figures were given for these items separately.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Cotton thread and yarn:										
Thread and carded yarns, warps, or warp yarns, on beams, in skeins, etc.	\$6,338,487	\$7,031,356	\$25,418,196	\$3,752,332	\$6,038,543	\$5,666,886	\$4,488,994	\$5,316,498	\$1,315,168	\$3,774,604
Sewing thread, crochet, darning and knitting cotton	-	1,932,538	3,545,891	1,980,146	2,753,007	3,188,622	3,056,900	3,469,008	2,387,969	1,961,519
Cloths:										
Unbleached	\$2,223,962	\$5,402,862	\$13,748,108	\$2,916,817	\$7,933,985	\$18,289,138	\$21,889,138	\$15,422,083	\$6,838,585	\$5,153,708
Bleached	1,860,397	3,318,675	9,168,582	\$5,830,112	6,068,135	3,696,394	1,557,653	1,581,316	1,532,585	2,154,285
Colored, dyed, printed, and woven-figured	-	-	-	-	25,071,330	25,204,253	14,256,655	9,416,827	7,886,551	8,286,044
Dyed in the piece	4,575,816	5,259,942	16,787,812	11,552,492	-	-	-	-	-	-
Printed	946,538	1,656,763	6,060,191	3,241,521	-	-	-	-	-	-
All other	2,041,288	2,026,661	5,989,054	5,885,307	-	-	-	-	-	-
Total cloths	\$11,648,031	\$17,664,903	\$51,753,747	\$29,426,249	\$39,073,450	\$47,188,033	\$37,703,416	\$26,424,126	\$16,257,721	\$15,504,037
Lace window curtains	\$142,911	\$104,520	\$1,097,903	\$567,474	\$767,786	\$722,878	\$517,896	\$173,014	\$500,486	\$667,561
Laces and lace articles, including lace edgings, insertings, and galloons:										
Hand-made	395,340	925,608	1,021,173	589,210	2,325,623	2,168,354	2,083,357	1,685,559	982,607	1,265,881
All other	4,948,662	7,702,488	12,003,224	8,978,147	5,686,109	9,259,362	11,051,927	7,612,553	5,074,568	4,924,560
Nets and veils	1,914,449	2,469,628	1,946,091	1,815,438	1,405,691	1,133,555	1,038,264	1,106,007	1,047,473	1,403,196
Veils and nettings	8,803	23,851	69,681	37,585	-	-	-	-	-	-
Total laces, etc.	\$8,872,428	\$13,909,116	\$24,300,149	\$16,703,583	\$14,451,585	\$17,013,228	\$20,105,883	\$14,602,694	\$12,086,328	\$12,475,957
Pile fabrics and Terry-woven fabrics	\$354,356	\$593,147	\$1,115,295	\$256,295	\$245,887	\$899,837	\$933,782	\$1,177,679	\$2,353,810	\$2,796,051
Tapestries and Jacquard-figured upholstery goods	-	426,550	3,355,811	1,781,969	1,145,595	1,196,207	1,947,198	3,264,576	4,315,233	5,467,679
Waste or flocks	94,123	216,878	862,542	309,905	2,674,371	6,727,755	3,244,346	3,726,692	2,117,002	1,622,772
Wearing apparel:										
Product of the Philippine Islands	-	2,796,634	7,349,452	5,154,258	2,353,312	393,735	3,702,744	3,968,870	5,421,516	3,521,176
Knit goods	1,291,462	812,206	2,440,486	4,819,238	5,731,283	5,731,283	5,947,218	7,721,153	8,416,667	8,767,734
Gloves	-	305,854	1,345,637	3,271,300	5,360,454	4,034,413	4,246,798	5,488,064	6,513,666	6,543,620
Hosiery	134,663	135,574	988,829	1,358,434	2,141,124	1,326,247	1,403,318	1,942,246	1,612,447	1,793,428
All other knit goods	1,156,799	370,778	186,020	189,504	73,087	370,623	291,102	293,813	290,554	430,686
Total manufactures of cotton	\$39,808,295	\$52,649,218	\$137,431,814	\$75,428,323	\$87,069,809	\$100,154,179	\$90,913,637	\$79,271,008	\$67,159,329	\$66,195,850

¹ Not separately classified under new tariff law effective September 22, 1922.² "Includes veils and nettings."³ Not separately classified under new tariff law; included with "nets and nettings."

United States Imports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 from 1917 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Europe:										
United Kingdom	\$39,542,259	\$30,303,244	\$23,192,647	\$82,128,618	\$27,917,368	\$39,003,963	\$51,222,189	\$42,447,766	\$34,177,328	\$22,038,371
Germany	53,500	-	- ¹	4,847,137	7,417,485	12,852,330	17,087,150	12,302,445	13,831,711	14,213,079
France	5,836,723	3,358,727	3,555,197	10,572,118	9,441,632	11,267,774	13,713,905	16,402,486	12,361,148	10,296,808
Switzerland	4,286,848	2,365,277	1,326,133	17,261,975	15,177,834	11,188,442	5,968,020	4,414,537	3,188,582	3,246,417
Belgium	9,695	1,431	621	861,740	424,198	692,459	1,045,021	1,280,353	1,187,923	1,263,087
Austria	-	-	- ¹	-	-	89,856	145,247	166,058	272,977	339,379
Italy	1,526,695	588,030	266,191	1,441,069	800,992	613,800	1,236,087	1,578,784	1,543,877	1,920,206
Spain	90,595	68,017	23,754	60,055	67,940	55,748	102,192	54,052	18,026	27,451
Czechoslovakia	- ²	- ²	- ²	387,953	329,938	697,288	967,748	985,103	1,478,106	2,368,344
Turkey (including Asiatic Turkey)	-	-	- ¹	104,803	55,328	22,418	53,775	18,682	16,005	18,093
All other Europe	286,394	186,733	304,245	2,220,696	958,069	1,030,848	925,430	832,894	533,784	633,592
America:										
Canada	184,367	2,679,683	2,078,544	248,108	344,590	211,722	263,439	135,949	252,481	188,397
Mexico	90,814	15,250	11,035	454,352	78,365	22,146	100,897	46,030	138,186	69,143
All other America	7,796	46,063	3,037	12,134	8,854	20,088	30,469	48,016	30,093	76,240
Japan	3,844,581	4,280,957	1,363,512	7,062,960	3,731,293	4,157,448	3,894,760	3,123,072	3,222,713	2,726,686
China	340,694	769,279	456,128	2,118,254	3,038,915	2,846,280	2,548,556	2,464,848	2,123,500	1,580,349
British India	23,578	18,192	5,548	32,101	71,627	188,208	212,696	207,445	451,219	295,889
All other countries	37,145	70,298	2,176,131	7,769,274	5,567,067	2,608,991	635,598	4,477,455	4,440,349	5,857,798
Total	\$56,181,684	\$44,751,181	\$34,762,723	\$137,583,347	\$75,430,495	\$87,069,809	\$100,153,179	\$90,913,641	\$79,271,008	\$67,159,329

¹ Included in "All other Europe."

² Included in Austria.

United States Imports of Specified Cloths¹

MONTH	Lawns, Organdies, Nainsooks, Cambrics, etc. (Square Yards)	Broadcloths and Poplins (Square Yards)	Sateens woven with not more than 7 Harnesses (Square Yards)	Sateens woven with 8 or more Harnesses (Square Yards)	Voiles (Square Yards)	Crepes (Square Yards)	Ginghams (Square Yards)	Ratines (Square Yards)	Jacquard Woven Cloths Other than Swivels or Lappets (Square Yds.)	Dotted Swisses (Square Yards)	Total
1927											
January	1,470,509	1,553,797	95,081	107,126	191,638	152,568	58,690	442	68,166	18,988	3,717,005
February	1,404,871	1,099,567	418,633	196,009	207,488	150,431	62,233	4,332	125,862	21,716	3,691,142
March	2,091,109	1,232,788	775,335	183,586	222,608	121,686	64,848	1,399	83,896	72,825	4,860,372
April	1,909,130	1,455,462	523,081	210,992	322,675	88,193	15,232	—	120,683	59,682	4,668,343
May	2,610,924	1,800,802	615,164	801,448	285,045	76,564	14,550	—	177,425	75,129	6,400,309
June	1,630,951	929,114	734,703	236,511	606,781	64,234	33,738	8,509	14,203	32,553	4,454,519
July	1,081,154	937,732	408,309	214,499	42,739	57,082	8,664	—	84,809	14,203	2,849,391
August	2,596,099	1,400,427	406,819	200,549	96,618	18,088	13,816	6,701	220,023	8,299	4,967,439
September	1,550,807	1,223,319	446,527	293,633	84,776	73,780	25,853	1,412	142,577	25,156	3,867,840
October	1,710,993	1,301,928	451,989	277,309	104,128	42,943	49,390	1,665	90,530	10,683	4,040,858
November	2,063,638	1,302,724	505,995	282,221	115,155	42,458	60,233	201	213,982	8,461	4,595,068
December	2,836,261	1,340,276	211,828	300,761	253,276	73,906	61,414	—	156,142	21,030	5,254,894
Total	23,319,255	15,870,677	5,591,774	2,784,506	2,496,072	961,933	469,638	24,661	1,575,907	368,725	53,463,148
1926											
January	1,575,701	2,885,036	342,175	161,822	661,120	89,335	65,756	10,864	44,637	16,484	5,852,930
February	905,734	2,979,454	261,882	62,670	425,196	168,413	28,409	12,844	34,098	8,101	4,886,831
March	2,121,633	4,199,046	502,723	146,280	769,159	311,747	32,135	67,277	80,543	19,041	8,247,884
April	1,630,386	2,858,579	650,750	169,498	553,869	224,660	32,686	36,226	114,294	79,238	6,349,369
May	966,375	1,382,483	613,685	212,336	280,121	107,997	27,173	7,127	102,698	2,604	3,690,599
June	739,449	1,515,027	552,366	249,449	128,067	142,249	25,745	774	153,681	21,480	3,049,586
July	714,086	1,326,280	311,402	260,812	124,336	102,642	16,374	9,978	69,209	9,484	2,455,870
August	716,454	1,283,995	129,511	200,812	6,003	33,920	12,159	2,620	133,077	13,967	2,340,118
September	760,196	953,865	366,694	74,859	10,071	8,627	15,477	1,156	109,939	33	2,300,387
October	1,070,034	1,973,363	198,483	207,266	131,740	40,799	25,151	8,514	125,108	340	3,781,998
November	1,141,918	1,652,156	240,721	138,670	143,680	82,337	8,597	—	138,187	7,256	3,553,522
December	1,008,955	1,406,696	221,110	452,773	80,542	94,877	38,029	84,066	100,182	10,089	3,497,319
Total	13,374,518	24,415,980	4,392,504	2,331,914	3,313,804	1,412,833	328,671	240,749	1,195,673	190,317	51,196,963

¹ These statistics do not include all types of cloths imported, and are collected at only the more important ports of the United States. The figures, however, amount to practically 90 per cent of the cloth imports for the period covered.

Total United States Imports for Consumption of Countable Cotton Cloths during the Years 1925, 1926 and 1927

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	1925			1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1-10	1,375,988	514,220	466,889	1,757,883	711,862	582,566	1,764,544	745,782	534,952
11-20	4,079,505	1,200,270	1,625,840	3,514,785	1,054,164	1,512,154	3,702,347	1,135,439	1,543,380
21-30	16,256,004	4,012,766	3,263,619	8,631,359	2,103,801	1,836,299	6,758,285	1,725,398	1,519,299
31-40	27,461,904	5,825,817	5,213,614	5,896,345	1,334,791	1,360,534	4,076,839	938,868	1,074,636
41-50	18,241,807	3,850,499	4,307,112	7,053,722	1,622,696	1,878,173	4,599,774	1,034,377	1,262,523
51-60	11,188,925	2,275,264	2,997,364	6,632,429	1,464,590	1,894,809	5,969,024	1,313,269	1,614,316
61-70	2,407,614	423,765	744,945	3,422,786	611,449	991,323	5,759,996	961,264	1,313,128
71-80	9,127,797	1,445,965	2,570,271	9,051,119	1,449,266	2,463,578	11,123,505	1,544,925	2,682,602
81-90	7,874,451	1,343,403	2,459,567	5,587,663	1,006,772	1,682,507	7,885,496	1,219,398	1,884,851
91-100	11,117,679	1,301,242	2,510,996	8,308,518	1,007,809	1,777,965	8,184,802	861,925	1,591,830
101-110	522,120	54,736	127,877	561,925	63,986	148,668	2,425,734	239,753	502,777
111-120	190,279	23,167	52,702	114,633	11,675	28,443	379,083	32,613	78,854
121-130	527,797	51,216	128,896	383,838	36,819	88,063	443,573	38,994	102,821
131-140	60,751	8,805	14,834	49,610	3,752	9,028	446,231	30,173	73,967
141-150	12,189	1,345	3,721	15,143	1,504	5,107	17,925	1,693	5,426
151-160	9,605	1,047	5,336	5,971	330	1,382	11,053	775	2,571
161-170	1,039	69	715	11,585	1,263	2,710	6,356	530	2,263
171-180	5,010	394	2,350	809	145	416	3,929	284	833
181-190	1,639	116	498	—	—	—	1,305	70	274
191-200	404	295	1,026	700	140	310	3,153	219	967
Above 200	2,447	614	1,579	—	—	—	26	15	20
Total	110,464,954	22,335,015	26,499,751	61,000,823	12,486,814	16,264,035	63,562,980	11,825,764	15,792,290

United States Imports for Consumption of Countable Cotton Cloths during the Years 1926 and 1927 — (Continued)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	PRINTED, DYED, COLORED OR WOVEN-FIGURED INCLUDING VAT-DYED						WOVEN WITH EIGHT OR MORE HARNESES, OR WITH JACQUARD, LAPPETS, OR SWIVEL ATTACHMENTS					
	1926			1927			1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10 . . .	1,549,748	598,278	482,948	1,559,203	647,827	465,974	109,423	45,762	33,913	140,337	58,080	38,933
11 to 20 . . .	3,081,044	904,118	1,343,421	3,272,443	978,846	1,373,767	41,199	14,024	16,065	57,521	19,960	23,780
21 to 30 . . .	5,708,097	1,378,579	1,312,427	4,835,541	1,223,239	1,136,664	396,217	112,720	95,562	343,857	110,005	88,710
31 to 40 . . .	1,763,007	394,868	499,747	1,528,997	368,577	487,915	626,571	152,085	219,819	999,615	235,790	295,162
41 to 50 . . .	1,440,936	308,151	519,308	1,003,377	204,250	358,547	1,275,625	378,233	503,101	1,566,193	395,437	540,133
51 to 60 . . .	668,407	142,552	232,484	632,339	135,917	222,382	2,574,038	721,087	1,070,324	2,593,569	696,404	988,178
61 to 70 . . .	466,064	79,901	189,453	390,709	74,699	155,795	488,480	92,733	242,078	798,625	130,439	352,508
71 to 80 . . .	785,903	133,404	285,422	1,734,808	201,628	450,462	580,880	100,948	257,563	1,002,719	182,977	411,943
81 to 90 . . .	238,259	38,714	95,908	334,779	50,248	112,941	514,149	70,748	201,641	707,168	100,905	266,110
91 to 100 . . .	236,823	26,987	72,418	1,188,471	101,866	257,020	119,327	24,229	64,413	154,845	27,556	76,343
101 to 110 . . .	240,742	29,109	66,118	911,067	78,089	181,847	20,778	2,624	7,567	10,257	1,564	5,234
111 to 120 . . .	26,508	4,724	10,406	57,056	5,127	13,743	673	60	259	4,107	560	2,184
121 to 130 . . .	18,651	1,813	6,210	57,207	5,871	21,167	1,716	168	676	5,989	848	3,455
131 to 140 . . .	2,289	235	555	4,481	422	1,890	737	132	398	238	27	149
141 to 150 . . .	437	169	447	1,070	151	556	—	—	—	—	—	—
151 to 160 . . .	86	7	20	—	—	—	—	—	—	—	—	—
161 to 170 . . .	9,535	1,100	1,954	—	—	—	—	—	—	—	—	—
171 to 180 . . .	160	22	36	1,924	128	367	—	—	—	—	—	—
181 to 190 . . .	—	—	—	—	—	—	—	—	—	—	—	—
191 to 200 . . .	700	140	310	—	—	—	—	—	—	—	—	—
Above 200 . . .	—	—	—	26	15	20	—	—	—	—	—	—
Total . . .	16,297,396	4,042,871	5,119,592	17,513,558	4,076,900	5,241,057	6,779,813	1,715,553	2,713,409	8,385,040	1,960,552	3,092,842

United States Imports for Consumption of Countable Cotton Cloths during the Years 1926 and 1927 — (Concluded)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	WOVEN WITH DROP BOXES					
	1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10	9,199	3,773	3,420	16,817	7,534	5,240
11 to 20	46,970	17,983	22,333	36,589	13,756	20,368
21 to 30	248,266	58,496	48,340	116,734	23,444	28,390
31 to 40	80,983	20,326	38,829	48,694	12,977	25,514
41 to 50	29,536	6,124	15,155	24,231	4,730	9,152
51 to 60	16,937	4,153	11,768	8,684	2,247	5,293
61 to 70	24,730	6,332	10,285	12,132	2,664	5,684
71 to 80	89,217	18,025	43,186	98,045	17,359	42,118
81 to 90	26,007	4,135	13,608	13,105	2,030	6,284
91 to 100	16,285	3,109	8,187	16,186	2,412	6,843
101 to 110	6,857	838	3,185	4,951	481	1,590
111 to 120	1,109	238	756	2,205	202	915
121 to 130	521	90	330	909	99	609
131 to 140	—	—	—	—	—	—
141 to 150	—	—	—	—	—	—
151 to 160	—	—	—	—	—	—
161 to 170	—	—	—	—	—	—
171 to 180	—	—	—	900	110	305
181 to 190	—	—	—	—	—	—
191 to 200	—	—	—	—	—	—
Above 200	—	—	—	—	—	—
Total	596,607	143,622	219,382	400,182	90,045	158,305

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed.

	1918	1919	1920	1921	1922 ¹	1923 ¹	1924 ¹	1925 ¹	1926 ¹	1927 ¹
Cloths (running yards):										
Ducks:										
Unbleached	5,097,520	9,128,503	13,183,255	5,890,284	8,277,695	6,850,282	7,180,584	9,023,964	9,166,085	11,327,295
Bleached	2,254,458	4,269,404	4,841,160	932,532	1,852,514	1,059,393	1,085,747	1,717,588	1,252,679	1,926,711
Colored	731,388	1,301,202	1,570,475	604,676	809,476	990,142	863,564	816,064	883,100	1,307,430
All other cloths:										
Unbleached	73,436,891	142,885,203	138,343,202	218,567,315	177,172,182	103,286,881	110,921,404	129,581,133	119,607,693	122,397,921
Bleached	99,227,003	126,349,050	184,368,835	83,676,191	99,681,739	77,635,357	82,458,805	92,337,823	98,358,648	87,258,320
Colored	—	—	—	—	—	—	—	—	—	—
Printed	139,768,162	137,665,935	159,132,993	90,337,326	113,319,448	102,202,243	97,262,828	111,197,504	99,149,736	117,334,185
Dyed in the piece	133,174,426	156,051,800	178,489,420	83,913,351	101,467,669	99,377,461	93,955,175	107,344,997	100,437,189	120,343,854
Dyed in the yarn	90,484,726	705,394,039	138,821,514	67,501,267	84,911,809	72,662,000	84,087,301	90,697,978	82,441,583	94,283,169
Tire fabrics	—	—	—	—	—	—	—	—	2,003,078	4,378,051
Total cloths	544,174,574	683,045,326	818,750,934	551,512,942	587,492,532	464,293,759	477,815,408	543,316,851	513,299,781	561,657,436
Mill waste (pounds)										
Rags (except paper stock) (pounds)	46,868,332	57,317,920	57,877,150	39,009,294	58,572,181	55,986,852	65,616,568	77,048,181	66,788,365	96,502,548
Hosiery (dozen pairs)	5,024,629	6,182,333	6,817,037	6,080,307	8,089,668	15,252,057	18,706,515	19,068,117	12,589,917	15,431,476
Yarn (pounds)	5,574,343	9,477,338	11,575,655	2,808,258	4,792,604	5,159,750	4,825,563	5,534,222	4,744,584	4,337,435
	13,355,800	20,699,124	24,099,399	14,294,176	15,503,860	12,081,384	13,673,509	21,891,810	24,036,636	28,090,555

¹ Cloth exports are in square yards.

NOTE. — Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Blankets	\$2,498,163	\$3,551,511	\$5,196,387	\$990,808	\$960,214	\$970,258	\$728,941	\$817,685	\$859,752	\$925,766
Cloths:										
Duck:										
Unbleached	\$3,430,806	\$7,469,640	\$10,753,578	\$2,818,206	\$3,508,982	\$3,216,638	\$3,353,931	\$1,149,830	\$3,412,879	\$3,755,330
Bleached	1,234,330	3,037,108	2,892,720	399,373	613,239	475,947	494,486	616,670	452,768	610,132
Colored	312,967	718,083	882,682	262,836	238,532	372,185	335,816	298,066	317,993	373,582
All other cloths:										
Unbleached	\$11,830,027	\$23,591,461	\$32,029,596	\$19,669,270	\$19,296,926	\$13,731,328	\$13,943,631	\$15,095,935	\$12,451,570	\$11,110,610
Bleached	19,090,986	26,213,748	50,841,463	11,702,965	13,871,473	12,287,691	12,075,860	13,352,271	12,370,611	9,983,531
Colored	21,628,277	23,205,902	38,584,777	10,575,603	14,802,468	15,196,072	13,995,536	14,921,031	14,046,107	15,709,876
Printed	30,073,042	40,665,303	58,854,461	15,363,740	18,111,287	19,673,792	18,063,158	20,320,460	17,614,723	19,281,783
Dyed in the piece	19,918,898	27,096,972	43,224,280	10,640,069	14,789,205	14,353,149	16,063,439	16,257,486	13,039,538	13,825,272
Dyed in the yarn									849,762	1,799,652
Tire fabric										
Total cloths	\$107,519,333	\$151,997,817	\$238,153,557	\$71,573,875	\$85,232,112	\$79,357,337	\$78,204,877	\$85,011,749	\$74,588,981	\$76,509,768
Laces and embroideries	\$1,569,322	\$1,731,075	\$1,029,409	\$611,506	\$359,034	\$319,454	\$205,088	\$310,142	\$257,862	\$216,155
Mill waste	9,488,664	12,411,704	12,368,596	3,678,527	6,067,303	7,609,698	7,616,188	8,720,584	6,077,523	8,617,072
Rags (except paper stock)	342,419	515,754	987,240	296,420	462,757	987,234	1,492,711	1,595,516	880,116	1,022,558
Thread, sewing, crochet, etc.	2,824,776	4,367,762	4,471,617	2,955,328	2,034,732	2,065,520	1,772,668	1,183,357	1,439,862	1,285,558
Wearing apparel:										
Collars and cuffs	329,227	771,219	816,142	341,789	348,046	403,415	770,823	683,393	570,207	524,524
Corsets	1,923,078	2,880,858	3,583,767	1,695,555	1,624,036	1,745,581	1,902,745	—	—	—
Knit goods	—	—	—	—	—	—	—	—	—	—
Hosiery	13,258,474	26,882,566	37,879,665	6,232,198	9,221,834	10,525,183	9,065,505	10,494,361	8,407,326	7,329,505
Underwear	2,897,486	8,602,293	14,067,339	3,602,493	6,185,980	5,025,008	3,740,963	3,827,662	3,214,167	2,536,489
All other knit goods	945,833	1,508,995	2,510,558	427,773	546,583	530,158	611,221	677,121	765,285	624,112
Yarn	8,846,694	14,488,630	20,014,949	5,679,075	6,815,664	6,632,672	7,423,967	11,896,201	12,131,925	12,222,824
Total manufactures of cotton	\$181,029,486	\$273,115,704	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741	\$148,239,365	\$128,877,008	\$133,059,299

NOTE.—Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

Conversely figures for certain classes of goods (as for all other cloths, colored) are discontinued when this classification is broken up into several sub-classifications, all other cloths, colored, being subdivided into printed, dyed in the piece, and dyed in the yarn.

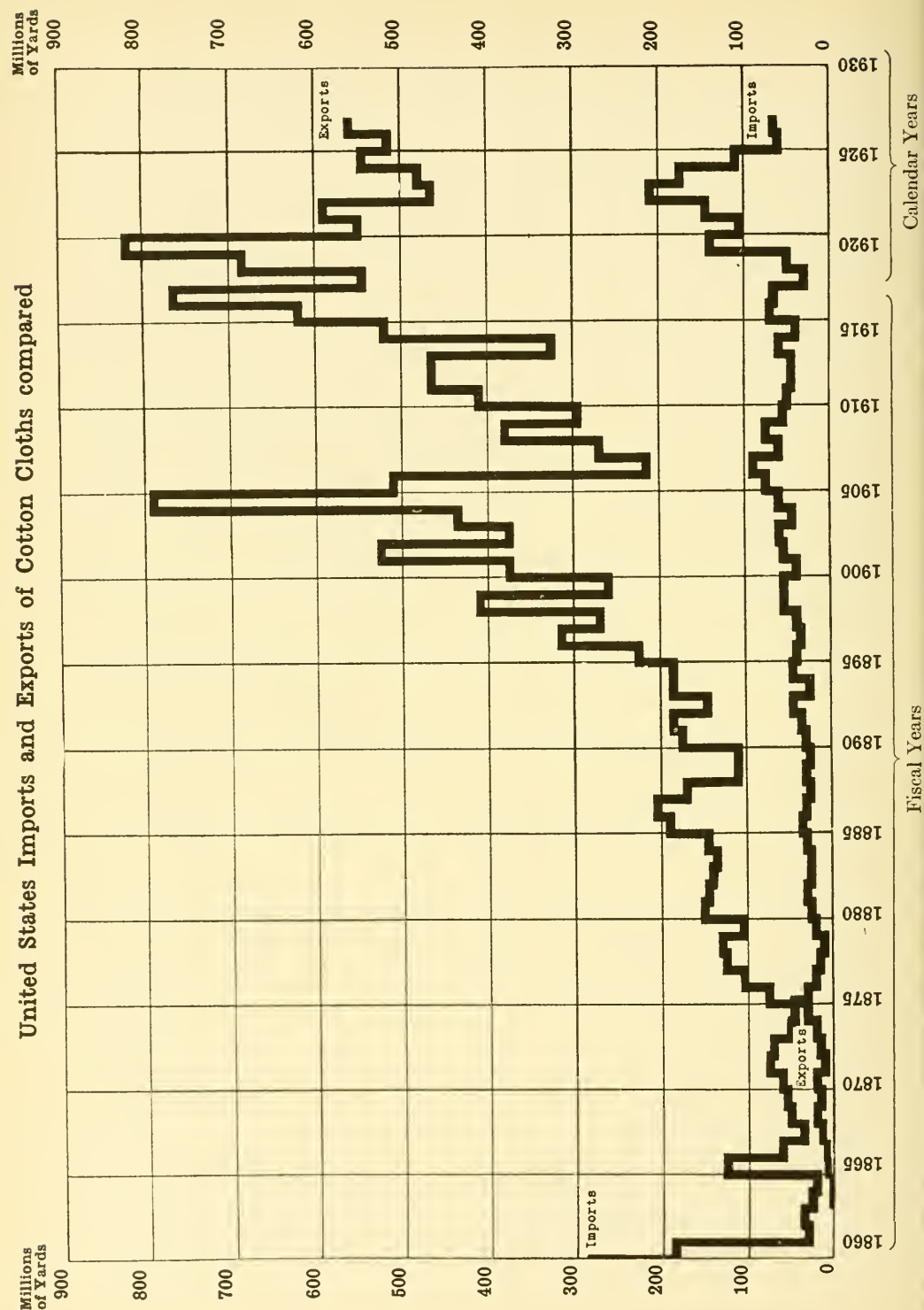
United States Exports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 from 1917 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES		1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Europe:											
United Kingdom	.	\$10,778,950	\$10,070,789	\$12,796,495	\$25,900,099	\$6,884,979	\$11,351,039	\$9,232,304	\$8,138,680	\$10,077,802	\$1,632,046
Germany	.	-	-	- ¹	1,964,236	1,522,910	1,149,584	1,158,523	1,827,423	2,355,718	216,843
All other Europe	.	9,507,287	9,489,084	38,907,913	34,491,875	11,533,970	7,004,752	4,335,250	3,570,284	5,555,374	3,525,685
America:											
Canada	.	28,264,480	27,984,121	30,555,383	40,526,138	18,207,778	20,540,062	19,304,728	16,384,203	17,675,268	14,184,909
Mexico	.	11,011,886	18,606,003	11,057,043	12,452,319	13,703,906	6,795,751	6,701,495	7,272,995	7,937,064	6,030,076
Central America	.	8,004,905	4,877,986	10,123,223	19,664,743	8,800,540	9,812,808	9,882,329	11,530,092	11,588,823	9,174,796
British West Indies (including Bermuda)	.	2,468,030	3,506,299	3,524,740	7,052,030	3,237,430	3,383,094	2,774,123	2,291,097	3,638,808	2,700,885
Cuba	.	10,630,627	17,728,667	16,819,419	73,364,132	6,744,018	11,464,303	22,880,293	20,881,923	16,020,118	14,887,479
Haiti	.	2,496,083	2,696,510	4,533,777	5,779,045	2,412,481	3,338,270	4,033,255	3,934,637	4,910,020	2,371,706
All other North America	.	3,231,716	5,668,253	3,279,006	14,828,626	2,116,574	3,122,172	4,087,780	4,911,952	5,608,113	3,960,127
Brazil	.	1,588,549	3,597,927	5,859,310	5,089,804	567,705	1,015,537	977,277	1,964,948	2,551,920	1,089,935
Chile	.	4,489,399	7,333,773	10,380,453	7,288,468	2,786,929	4,775,339	5,337,587	4,473,085	4,830,039	3,807,543
Colombia	.	3,793,316	2,335,132	3,351,124	25,308,682	2,190,974	5,765,011	4,734,691	5,906,986	8,004,596	5,992,227
Peru	.	2,584,311	2,738,782	2,178,629	6,138,972	1,099,481	1,937,994	2,127,413	1,807,225	1,305,769	1,630,399
Venezuela	.	2,278,406	1,012,670	1,492,680	10,303,687	514,331	1,862,633	1,463,883	2,311,810	2,376,644	1,814,872
All other South America	.	13,547,220	21,761,693	34,956,963	41,667,394	12,046,946	17,567,471	14,699,034	14,215,190	17,429,241	7,986,918
Asia and Oceania:											
China	.	681,044	1,217,295	2,954,883	9,201,386	2,576,539	2,248,349	539,607	526,805	1,408,286	530,209
British India	.	894,480	1,034,590	933,505	4,828,097	2,939,733	854,451	828,955	1,177,331	1,850,773	1,906,061
British Australasia	.	5,812,428	5,651,326	12,601,593	14,361,911	3,580,761	5,114,867	3,583,927	2,600,055	4,036,508	3,881,470
Aden	.	1,194,218	173,986	206,821	1,141,240	1,334,557	1,433,096	742,835	254,277	417,164	380,158
Philippine Islands	.	9,340,976	17,262,881	17,179,046	23,526,230	8,022,385	14,263,146	13,250,098	11,557,251	13,248,865	15,279,067
All other Asia and Oceania	.	1,625,716	1,747,806	4,832,686	12,068,056	2,668,763	1,728,391	1,878,240	1,214,900	1,542,624	1,241,534
Africa											
Africa	.	2,134,815	2,899,709	3,691,894	5,114,107	1,740,882	3,093,427	2,995,627	3,747,592	4,517,825	4,682,599
Total	.	\$136,299,842	\$109,378,223	\$232,206,566	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,351	\$182,710,741	\$148,239,365	\$111,997,547

¹ Included in "All other Europe."



United States Imports and Exports of Cotton Cloth during Calendar Years

Source: United States Department of Commerce

YEAR	Exports (Linear Yards)	Imports (Square Yards)
1900	257,910,508	53,264,507
1901	376,233,960	41,891,885
1902	525,495,309	56,199,911
1903	374,074,192	59,250,082
1904	434,989,686	44,755,238
1905	790,259,024	61,381,256
1906	512,229,720	78,321,752
1907	216,387,642	91,613,881
1908	272,242,179	60,099,151
1909	380,521,971	73,803,398
1910	295,736,336	55,276,921
1911	410,200,201	52,031,130
1912	464,253,126	45,497,927
1913	466,677,252	46,563,568
1914	326,477,889	62,272,013
1915	518,338,302	42,759,670
1916	620,255,896	66,406,638
1917	764,621,892	65,296,802
1918	544,174,574	32,839,569
1919	683,045,326	49,753,481
1920	818,750,954	141,330,861
1921	551,512,942	106,308,379
1922	587,492,532 ¹	142,000,000 ²
1923	464,520,397 ¹	218,970,307 ²
1924	477,815,408 ¹	177,385,654
1925	543,316,851 ¹	109,249,133
1926	513,299,791 ¹	60,680,157
1927	561,657,436 ¹	63,001,947

¹ Square yards.

² Partly estimated, as imports of cotton cloth were reported in pounds only from September 22, 1922, to March 31, 1923.

British Exports of Cotton Cloth and Cotton Yarn

Source: British Board of Trade

YEAR	Cloth (Yards)	Yarn (Pounds)
1900	5,031,727,000	158,272,900
1901	5,364,600,000	169,658,000
1902	5,331,552,200	166,360,900
1903	5,157,315,500	150,758,100
1904	5,591,822,600	163,901,400
1905	6,196,783,900	205,100,500
1906	6,260,771,400	207,378,700
1907	6,297,707,900	241,076,700
1908	5,530,808,500	214,762,200
1909	5,722,158,100	215,223,400
1910	6,017,625,200	191,629,100
1911	6,653,672,300	223,834,400
1912	6,912,919,700	243,850,400
1913	7,075,252,000	210,099,000
1914	5,735,744,500	178,496,800
1915	4,748,452,900	188,169,200
1916	5,254,222,700	172,170,600
1917	4,978,237,900	133,151,300
1918	3,699,252,300	101,711,400
1919	3,523,660,000	162,816,600
1920	4,435,405,000	147,432,400
1921	2,902,288,900	145,894,900
1922	4,183,729,100	201,953,000
1923	4,140,231,900	145,017,400
1924	4,443,959,500	163,056,400
1925	4,435,617,800	189,531,200
1926	3,834,447,700	168,543,200
1927	4,117,683,000	200,502,200

High and Low Prices of Middling Upland Spot Cotton in New York

[In cents per pound]

Source: New York Cotton Exchange

The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15 they have been from August 1 to July 31.

SEASON	High	Low
1902-03	13.50	8.30
1903-04	17.25	9.50
1904-05	11.65	6.85
1905-06	12.60	9.85
1906-07	13.50	9.60
1907-08	13.55	9.90
1908-09	13.15	9.00
1909-10	16.45	12.40
1910-11	19.75	12.30
1911-12	13.40	9.20
1912-13	13.40	10.75
1913-14	14.50	11.90
1914-15	10.60	7.25
1915-16	13.45	9.20
1916-17	27.65	13.35
1917-18	36.00	21.20
1918-19	38.20	25.00
1919-20	43.75	28.85
1920-21	40.00	10.85
1921-22	23.75	12.80
1922-23	31.30	20.35
1923-24	37.65	23.50
1924-25	31.50	23.41
1925-26	24.75	17.85
1926-27	19.20	12.15

Highest and Lowest Prices paid for the Principal

DURING MONTH OF —	JANUARY DELIVERY		MARCH DELIVERY		MAY DELIVERY		JULY DELIVERY	
	High	Low	High	Low	High	Low	High	Low
<i>Season of 1924-25</i>								
August, 1924 . . .	28.38	23.74	28.64	24.05	28.72	24.23	27.50	23.75
September . . .	25.25	21.20	25.45	21.50	25.62	21.72	25.25	21.40
October . . .	25.95	22.18	26.20	22.50	26.40	22.70	26.00	22.45
November . . .	25.14	22.63	25.45	22.95	25.77	23.18	25.44	22.98
December . . .	24.73	22.66	25.15	23.05	25.50	23.40	25.51	23.51
January, 1925 . . .	24.55	23.30	24.83	23.06	25.13	23.39	25.25	23.61
February . . .	25.33	24.00	25.38	23.85	25.65	24.19	25.88	24.43
March . . .	25.45	23.74	25.98	24.92	26.25	24.22	26.38	24.50
April . . .	24.95	23.55	25.05	23.73	24.93	23.68	25.27	23.92
May . . .	23.92	21.40	24.07	21.62	24.24	21.65	24.36	21.70
June . . .	23.70	21.68	24.00	21.96	24.22	22.45	24.09	22.40
July . . .	25.10	22.40	25.40	22.72	25.63	22.94	24.62	22.70
Season . . .	28.38	21.20	28.64	21.50	28.72	21.65	27.50	21.40
<i>Season of 1925-26</i>								
August, 1925 . . .	23.95	21.57	24.20	21.88	24.48	22.18	24.31	22.54
September . . .	24.40	21.65	24.68	21.95	25.00	22.25	24.72	22.23
October . . .	22.64	18.11	22.90	18.34	23.10	18.50	22.77	18.13
November . . .	20.47	18.29	20.53	18.58	20.36	18.67	19.90	18.26
December . . .	20.20	18.30	19.94	18.62	19.48	18.36	19.14	18.00
January, 1926 . . .	20.35	19.80	20.59	19.68	20.00	19.28	19.30	18.74
February . . .	17.94	17.16	20.50	19.25	19.92	18.70	19.20	18.08
March . . .	17.60	16.85	19.46	18.83	19.09	18.27	18.64	17.65
April . . .	17.35	16.60	17.40	16.72	19.00	18.51	18.44	17.95
May . . .	17.75	16.80	17.91	17.01	19.14	18.54	18.69	18.09
June . . .	17.59	15.97	17.74	16.16	17.75	16.30	18.46	17.45
July . . .	18.03	15.90	18.21	16.08	18.36	16.25	18.82	17.50
Season . . .	24.40	15.90	24.68	16.08	25.00	16.25	24.72	17.45
<i>Season of 1926-27</i>								
August, 1926 . . .	18.12	16.10	18.26	16.29	18.37	16.45	18.20	16.40
September . . .	18.28	14.24	18.50	14.47	18.65	14.70	18.51	14.86
October . . .	14.17	12.10	14.37	12.35	14.57	12.56	14.70	12.75
November . . .	12.81	12.26	13.02	12.50	13.24	12.72	13.45	12.91
December . . .	12.80	11.55	12.96	11.80	13.15	12.02	13.30	12.25
January, 1927 . . .	13.47	12.45	13.58	12.62	13.80	12.83	13.98	13.01
February . . .	14.90	14.13	14.20	13.25	14.35	13.46	14.51	13.67
March . . .	15.02	14.11	14.68	13.51	14.70	13.62	14.79	13.75
April . . .	15.96	14.63	16.12	14.75	15.17	13.97	15.42	14.18
May . . .	17.52	15.72	17.70	15.88	16.19	14.97	16.84	15.23
June . . .	17.70	16.72	17.91	16.88	18.03	17.05	17.05	16.05
July . . .	19.47	17.23	19.65	17.42	19.80	17.53	18.30	16.74
Season . . .	19.47	11.55	19.65	11.80	19.80	12.02	18.51	12.25

Options on the New York Cotton Exchange

AUGUST DELIVERY		SEPTEMBER DELIVERY		OCTOBER DELIVERY		DECEMBER DELIVERY		DURING MONTH OF —
High	Low	High	Low	High	Low	High	Low	
28.50	25.80	28.59	24.27	29.23	24.05	28.53	23.75	<i>Season of 1924-25</i>
—	—	24.55	23.60	26.25	21.50	25.20	21.17	August, 1924
23.25	22.45	22.67	21.80	26.68	22.61	25.90	22.09	September
24.78	23.00	24.00	22.20	24.20	21.50	24.95	22.55	October
25.00	24.10	25.05	22.95	24.85	22.52	23.80	22.52	November
24.10	23.97	24.32	24.32	24.39	23.40	24.31	23.36	December
25.56	24.60	25.24	25.08	25.51	24.17	25.55	24.20	January, 1925
25.78	25.18	25.68	25.13	25.71	23.92	25.72	23.93	February
25.07	24.03	25.20	24.10	25.15	23.65	25.25	23.82	March
23.60	21.75	24.20	21.75	24.04	21.55	24.24	21.72	April
24.12	22.00	23.83	22.20	24.17	21.87	24.25	22.07	May
25.04	22.78	24.86	23.00	25.55	22.81	25.70	22.95	June
								July
28.50	21.75	28.59	21.75	29.23	21.50	28.53	21.17	Season
								<i>Season of 1925-26</i>
23.25	23.00	23.50	22.42	24.45	21.85	24.50	22.10	August, 1925
—	—	24.05	24.05	24.75	21.95	25.12	22.20	September
21.05	18.50	22.00	18.75	23.30	21.20	23.37	18.75	October
19.45	18.52	19.45	18.45	19.70	18.05	21.42	18.96	November
18.38	18.00	18.53	17.80	18.55	17.64	20.58	19.36	December
—	—	18.50	18.50	18.53	18.02	18.50	17.77	January, 1926
18.78	18.60	18.45	17.86	18.37	17.50	18.03	17.20	February
18.30	17.33	17.62	17.48	18.02	17.15	17.70	16.83	March
17.97	17.61	17.54	17.00	17.78	17.00	17.45	16.66	April
18.19	17.80	17.63	17.28	17.80	17.16	17.79	16.90	May
17.40	16.58	17.50	16.20	17.70	16.14	17.65	16.16	June
18.35	16.90	17.88	16.72	18.03	16.02	17.94	16.00	July
23.25	16.58	24.05	16.20	24.75	16.02	25.12	16.00	Season
								<i>Season of 1926-27</i>
18.45	16.75	18.08	16.96	18.18	16.15	18.12	16.08	August, 1926
—	—	18.06	17.52	18.05	13.91	18.25	14.15	September
14.25	13.32	14.50	13.15	14.22	12.60	14.25	12.00	October
13.22	13.22	13.56	13.18	13.75	13.05	12.73	12.10	November
—	—	13.42	12.50	13.45	12.46	13.16	11.85	December
13.91	13.03	14.10	13.77	14.18	13.21	14.34	13.36	January, 1927
14.44	14.17	14.60	13.97	14.69	13.88	14.86	14.03	February
14.88	13.93	14.60	13.98	14.91	13.92	15.01	14.07	March
15.48	14.55	15.63	14.43	15.72	14.40	15.91	14.59	April
15.60	15.39	17.00	15.72	17.23	15.51	17.46	15.69	May
16.95	16.68	17.11	16.35	17.45	16.41	17.65	16.64	June
18.55	16.93	18.87	17.08	19.15	16.97	19.39	17.17	July
18.55	13.03	18.87	12.50	19.15	12.46	19.39	11.85	Season

Average Monthly Price of Cotton

Source: New York Cotton Exchange

SEASON	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Av.
1895-96	7.55	8.42	9.05	8.68	8.37	8.28	8.05	7.80	7.92	8.21	7.62	7.27	8.10
1896-97	8.03	8.56	8.04	7.89	7.38	7.38	7.19	7.19	7.40	7.71	7.75	7.94	7.71
1897-98	8.00	7.25	6.31	5.86	5.87	5.94	6.18	6.16	6.27	6.41	6.49	6.18	6.41
1898-99	5.93	5.68	5.41	5.40	5.79	6.10	6.49	6.49	6.22	6.21	6.25	6.14	6.00
1899-1900	6.27	6.45	7.27	7.59	7.66	7.74	8.60	9.70	9.77	9.73	9.18	10.06	8.33
1900-01	9.57	10.29	10.19	9.82	10.16	10.04	9.89	8.68	8.33	8.17	8.42	8.53	9.36
1901-02	8.15	8.39	8.30	7.95	8.38	8.28	8.53	8.93	9.28	9.56	9.34	9.33	8.71
1902-03	8.06	8.97	8.80	8.49	8.62	8.94	9.42	10.00	10.36	11.36	12.36	12.60	9.91
1903-04	12.80	12.00	10.25	10.09	12.74	14.27	14.85	15.61	14.49	13.47	11.80	10.84	12.83
1904-05	10.75	11.07	10.36	10.04	12.92	11.18	7.76	8.00	7.94	8.21	8.83	10.77	9.06
1905-06	10.85	10.88	10.31	11.39	12.96	11.90	11.50	11.34	11.75	11.80	11.11	11.01	11.31
1906-07	10.41	9.78	11.00	10.63	10.77	10.83	11.01	11.16	11.18	13.58	12.97	13.13	11.22
1907-08	13.31	12.61	11.56	11.02	11.88	11.73	11.86	11.01	10.18	13.58	11.64	11.12	11.76
1908-09	10.34	9.38	9.25	9.41	9.25	9.59	9.80	9.76	10.35	11.23	11.46	12.45	10.18
1909-10	12.73	12.97	13.81	14.80	15.13	15.15	14.76	15.02	15.12	15.46	15.06	15.65	14.63
1910-11	16.06	14.60	14.39	14.76	15.08	14.88	14.31	14.51	14.82	15.77	15.63	14.17	14.91
1911-12	12.56	11.35	9.67	9.44	9.37	9.55	10.38	10.60	10.25	10.33	11.62	12.58	10.64
1912-13	12.07	11.75	11.05	12.27	13.02	13.08	12.88	12.62	12.33	11.94	12.23	12.28	12.29
1913-14	12.14	13.41	14.03	13.75	13.04	12.71	12.86	13.25	13.26	13.39	13.45	13.25	13.21
1914-15	11.77	11.00	11.00	9.31	7.51	8.21	8.53	8.98	10.63	9.89	9.66	9.31	9.60
1915-16	9.40	10.53	12.29	11.87	12.33	12.34	11.75	11.80	12.07	12.96	12.97	13.04	11.94
1916-17	14.45	15.82	17.99	19.66	18.47	17.61	16.04	18.42	20.41	20.65	25.00	26.56	19.25
1917-18	25.76	23.17	28.12	29.46	30.72	32.25	31.63	33.56	32.09	27.10	30.37	31.65	29.65
1918-19	33.92	34.97	32.65	29.61	30.30	29.88	26.29	27.54	28.81	30.65	32.76	35.32	31.05
1919-20	32.48	30.30	34.26	39.20	39.18	39.28	38.61	41.15	42.46	41.14	39.46	40.92	38.20
1920-21	36.50	31.18	23.04	17.81	15.83	16.17	13.61	11.55	12.13	12.83	12.17	12.92	17.92
1921-22	13.45	19.15	19.90	18.11	18.32	18.07	17.92	18.38	18.03	20.70	22.58	22.29	18.86
1922-23	21.78	21.44	22.92	25.61	25.74	27.54	28.38	30.35	28.78	27.16	28.58	26.49	26.23
1923-24	24.88	28.43	29.84	34.12	36.25	34.36	32.61	28.57	30.50	31.47	29.90	31.95	24.67
1924-25	29.04	23.55	24.12	23.81	24.08	24.75	25.72	24.75	24.60	23.53	24.10	24.53	21.09
1925-26	24.00	23.71	21.83	21.08	19.93	20.82	20.56	19.30	19.22	18.92	18.49	18.67	20.54
1926-27	18.47	17.53	13.34	12.85	12.70	13.35	14.13	14.29	14.67	16.06	16.87	17.85	15.09

Monthly figure obtained by averaging Wednesday and Saturday prices.

Monthly High and Low Prices of Middling Upland Spot Cotton at New York

Source: New York Cotton Exchange

	1919-20		1920-21		1921-22		1922-23		1923-24		1924-25		1925-26		1926-27	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
August	35.70	30.55	40.00	31.75	16.60	12.80	23.20	20.35	26.35	23.50	31.50	25.90	24.65	22.20	19.20	17.70
September	32.85	28.85	32.25	25.50	21.55	17.50	22.25	20.35	30.75	25.95	26.10	22.15	24.75	22.35	18.95	14.70
October	38.55	31.10	25.25	20.50	21.35	18.50	24.35	20.45	31.80	28.20	26.90	22.50	23.55	19.40	14.30	12.45
November	40.20	38.40	22.50	15.50	19.00	16.70	26.80	24.45	37.60	31.25	24.85	23.60	21.65	19.90	13.10	12.60
December	40.25	38.00	16.70	14.50	19.45	17.50	26.80	24.55	37.65	33.70	24.90	23.15	21.10	19.15	13.10	12.15
January	39.75	38.75	18.25	14.30	19.05	16.45	28.75	26.45	35.70	32.90	24.30	23.45	21.25	20.40	13.70	12.80
February	40.10	37.55	14.20	11.25	18.85	16.85	30.15	27.40	34.85	29.00	25.35	24.25	21.00	19.75	14.50	13.65
March	43.25	40.25	12.55	11.20	18.70	17.80	31.30	28.75	29.25	26.80	26.05	24.60	19.60	19.05	14.85	14.00
April	43.25	41.25	12.45	11.65	18.35	17.75	30.05	27.30	31.65	28.50	24.95	24.00	19.45	18.75	15.35	14.30
May	43.00	40.00	13.15	12.45	21.80	18.95	28.90	25.30	32.85	30.05	24.40	22.20	19.35	18.70	17.05	15.45
June	40.00	37.75	12.95	10.85	23.30	20.75	29.90	27.25	32.75	28.75	24.80	23.35	18.85	18.00	17.10	16.35
July	43.75	39.25	12.85	11.95	23.75	21.45	28.05	22.45	35.30	29.60	25.90	23.80	19.35	17.85	18.95	17.05
Season	43.75	28.85	40.00	10.85	23.75	12.80	31.30	20.35	37.65	23.50	31.50	22.15	24.75	17.85	19.20	12.15

Prices of Extra Staple Cotton, 1927

Source: Daily News Record

		AMERICAN STAPLES ¹			EGYPTIANS ¹			Pima ² No. 2	Peru- vian ¹ Mitaffi	Tanguis ³ Strict Middling	New York Middling Spots
		1½-Inch	1⅞-Inch	1½-Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade				
January	4	17½-18½	21-22½	26	18-19	27½-28½	29	35	19	18½	13.00
January	11	18-19½	21-22½	26	19-20½	28-29	30½	35	18½	17½-19	13.35
January	18	18-19½	21-22	26	19-20½	28-29½	31½	35	19	18½	13.65
January	24	18-19	21-22	26	19-20	28-29½	32	35	19½	18½	13.70
January	31	17½-19	21-23	26	19½-20½	28½-30	33	35	19½	18½	13.55
February	2	17½-19½	21-22½	26	19½-20½	28½-29½	32	35	19	18½	13.70
February	9	18½-19½	21-22	26	19½-20½	27½-29	32	37	19	19	14.25
February	15	18½-19½	21-22½	26	19½-20	27-28	31	37	18½	18½	14.20
February	21	19-19½	21½-22½	26	20½-21	27½-28	31	36½	18½	18½	14.00
February	28	19-20	21½-22½	26	21½-22	27½-28½	31	36½	19	18½	14.50
March	4	19-20	21½-23	26	21½-22½	27½-28½	31	37	19	18½	14.50
March	12	19-20	21½-22½	25½	21-22½	28-29	30½	37	19½	19	14.20
March	17	18½-20	21-23	26	20½-21½	27-28½	30½	39	19½	18½	14.00
March	25	18-19½	21-23	26	21-22½	27-29	30	40	19½	19	14.40
March	31	18-19	21-22	26	20½-21½	27-28½	30	40	19	18½	14.45
April	5	18-19	21-22½	26	21½-22½	27½-28½	32	40	19	18½	14.35
April	12	18-19	21-22½	26	21-22	27-28	30½	40	19	18½	14.50
April	19	20½-21½	21-22½	26	21-21½	28-29	31	40	19½	19	14.60
April	25	19½-21	22-23	26½	21½-22	28-29½	32	40	19½	19½	15.35
April	29	20-21	22-23½	26½	21½-22½	28½-29½	32	40	19½	19½	15.30
May	4	20-21	23-24	28½	22-23½	28½-29½	32½	42	20	19½	15.95
May	10	21-22½	23½-25	29	23½-24½	32-33½	35	42	20	19½	15.75
May	16	20½-22	24-25½	29	23½-24½	33-34	35	42	21½	20½	15.70
May	23	22-23	25-26	30	25½-26½	33-35	37½	42	22½	22	16.60
May	31	21½-22½	25½-27	30	25-26½	33½-34½	37	42	22½	22	17.05
June	1	21½-23	25½-27	30	25-26	33½-34½	37	42	23	22½	16.95
June	6	21½-22½	25½-27	30	26½-27	35-36	38	42	23	22½	16.35
June	13	22½-23½	26-27	30½	26½-27½	35-36	38	42	23	22½	16.60
June	18	22½-23	25½-26½	30½	26-27	35-35½	37½	42	23½	23	16.90
June	29	22-22½	26-26½	30½	26-27	36-37	38	42	24½	22½	16.95

¹ New Bedford basis.² New England basis.³ New York basis.

Prices of Extra Staple Cotton, 1927—(Concluded)

Source: Daily News Record

		AMERICAN STAPLES ¹			EGYPTIANS ¹			Pima ² No. 2	Peru- vian ¹ Mitafifi	Tanguis ³ Strict Middling	New York Middling Spots
		1½-Inch	1½-Inch	1½-Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade				
July	1	22 -23	26 -27	31	27 -28	36 -37	38	42	24½	22½	17.10
July	12	22 -23	26 -27½	31	27 -28	36 -37	38	44	25	22½	17.75
July	18	22½-23½	26 -27	31	28½-29½	39 -40	41½	44	27	22½	18.05
July	22	22½-23½	26½-28	31	29 -30	39½-41	42	44	27	22½	18.60
July	27	23 -24½	26½-28	31½	30 -31½	41 -42½	44	44	27½	23½	18.70
August	4	22 -23	25½-26½	30	29½-31	39 -41	42	45	27½	23½	17.45
August	15	24 -25	27½-29	30	30½-31	40 -42	44	46	28	23½	19.40
August	20	24½-25½	29 -29½	32½	31½-32½	41½-43	45	46	29	26	21.10
August	25	26 -27½	28 -30½	32	31½-32½	41½-43	44	46	29½	27	21.55
August	31	28 -29	30½-31½	34½	31½-32½	41½-43	46	46	30	27	23.10
September	1	27½-28½	30 -31½	34	31 -32	41½-43½	45	46	30	27	23.10
September	12	29½-30½	32 -34	35½	33 -34	43 -44½	46½	47	31	28	21.95
September	17	29 -30	31 -32	34	32 -33	41 -43	45	46	31	28	21.25
September	26	26 -27	28 -29	32	29½-30½	39 -40	43	46	30	27½	21.50
September	30	27½-28	29½-30	33	30 -31	40 -41	43	45	29	27	21.80
October	4	27 -28	29½-30½	32½	31 -32	38 -39½	43½	44	29	27	21.40
October	11	26 -27	28 -29	31½	30½-31	38 -39	43	43	29	27	20.90
October	17	26 -27	28½-29	31½	30 -31	38 -39½	43	42	30	27	21.25
October	21	25 -26	27½-28½	31	29 -30	37 -38	42	41½	30	27	20.00
October	29	25½-26½	28 -29	30	30 -31	39 -40	42	41½	31	26½	20.70
November	4	26½-27½	28 -29	31	31 -32	38 -39	41½	41½	32	27½	21.20
November	11	25 -26	27 -27½	29	29½-30½	40 -41	42	42	31½	27	20.25
November	16	25½-26½	27 -28	29½	30 -31	40 -41½	42	42	31	26½	20.10
November	21	25 -25½	26 -26½	29	29½-30½	38 -39	41	42	31	26	20.30
November	29	24 -25	26 -27	29	29 -30	38 -39½	41	41½	31	26	19.40
December	1	24 -25	26 -27	29	29½-30½	38½-39½	41	41½	31	26	19.65
December	8	24 -24½	25 -26½	28	28½-29½	36 -37½	40	41½	31	26	19.15
December	13	23½-24	23½-26	27½	28 -29	36½-37½	39	40½	31	26	18.60
December	19	23½-24	25 -26	27½	28 -29	34 -35	37½	40	32	26	19.75
December	28	24 -26	26 -27½	29	28 -29½	34½-36	38	40	31	25½	20.00

¹ New Bedford basis.² New England basis.³ New York basis.

Premiums on Staple Cotton in the Memphis Market

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 ¹ / ₁₆ Inches	Staple 1 ¹ / ₈ Inches	Staple 1 ³ / ₁₆ Inches	Staple 1 ¹ / ₄ Inches
1920-1921					
August	36.23	300	2,383	—	—
September	30.07	233	1,966	—	—
October	22.68	118	829	1,520	1,567
November	18.81	208	425	787	1,000
December	15.68	100	275	475	650
January	16.63	94	375	675	925
February	13.44	50	325	613	900
March	11.74	50	250	500	775
April	12.14	81	305	565	—
May	12.84	44	406	631	912
June	12.00	50	315	619	881
July	12.41	95	625	865	1,095
Average	17.89	119	707	725	967
1921-1922					
August	13.79	67	550	933	1,400
September	19.95	183	550	1,183	1,517
October	19.63	190	680	1,160	1,640
November	18.01	175	600	1,000	1,225
December	18.30	225	585	925	1,145
January	17.94	225	500	975	1,244
February	17.90	200	525	850	1,125
March	18.31	144	444	744	1,069
April	18.06	175	415	660	900
May	20.75	181	469	731	981
June	22.10	125	425	837	1,137
July	22.27	95	410	710	1,010
Average	18.92	165	513	892	1,199

Premiums on Staple Cotton in the Memphis Market —
(Continued)

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 ¹ / ₁₆ Inches	Staple 1 ¹ / ₈ Inches	Staple 1 ³ / ₁₆ Inches	Staple 1 ¹ / ₄ Inches
1922-1923					
August	21.86	125	338	Nom.	Nom.
September	21.35	175	315	795	994
October	22.73	175	400	675	850
November	25.64	125	275	488	738
December	25.65	75	195	335	495
January	27.55	94	175	288	463
February	28.63	66	153	266	403
March	30.55	40	105	165	315
April	28.88	6	106	275	450
May	27.98	—	100	194	281
June	28.52	—	30	65	160
July	26.22	12	31	181	331
Average	26.30	74	185	339	498
1923-1924					
August	25.20	70	210	400	630
September	29.06	81	237	350	475
October	30.06	75	200	325	450
November	34.73	75	130	240	320
December	35.95	94	181	344	456
January	34.18	65	135	300	440
February	31.88	50	75	200	350
March	28.39	50	69	112	212
April	30.30	50	81	125	225
May	31.54	50	70	105	185
June	29.96	69	119	200	262
July	32.07	83	125	200	300
Average	31.11	68	136	242	359

Premiums on Staple Cotton in the Memphis Market — (Continued)

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDRETHS OF CENT			
		Staple 1 ¹ / ₁₆ Inches	Staple 1 ¹ / ₈ Inches	Staple 1 ³ / ₁₆ Inches	Staple 1 ¹ / ₄ Inches
1924-1925					
August	29.01	75	300	500	600
September	24.24	67	167	317	517
October	24.47	96	206	326	861
November	24.22	94	250	425	656
December	23.85	125	362	525	750
January	23.98	230	555	795	965
February	24.70	200	487	762	1,037
March	25.64	287	587	937	1,350
April	24.54	287	675	1,062	1,487
May	23.41	245	675	1,041	1,415
June	24.13	194	456	869	1,219
July	24.68	220	445	690	930
Average	24.74	177	430	687	982
1925-1926					
August	23.72	150	345	570	820
September	23.79	144	325	537	800
October	21.77	150	410	620	890
November	20.94	219	456	825	1,087
December	20.06	206	594	894	1,119
January	20.84	265	525	825	1,105
February	20.60	187	394	644	894
March	19.35	206	462	787	1,062
April	19.13	181	519	744	1,081
May	18.92	145	405	610	1,065
June	18.51	206	369	469	919
July	18.71	185	235	515	715
Average	20.53	187	419	678	963

Premiums on Staple Cotton in the Memphis Market— (Concluded)

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 ¹ / ₁₆ Inches	Staple 1 ¹ / ₈ Inches	Staple 1 ³ / ₁₆ Inches	Staple 1 ¹ / ₄ Inches
1926-1927					
August	18.57	144	275	550	825
September	17.01	156	331	531	800
October	13.14	110	440	440	820
November	12.86	131	406	406	820
December	12.68	120	400	400	900
January	13.42	119	450	450	800
February	14.11	100	225	375	700
March	14.33	163	213	400	700
April	14.77	150	200	400	950
May	16.04	200	325	550	950
June	16.85	200	325	600	1,000
July	17.99	200	350	600	1,000
Average	15.15	149	328	475	772

Comparative Prices of Foreign Cotton

[January 1 quotations at Liverpool]

Pence per pound

	1928	1927	1926	1925	1924
American, middling . . .	11.08	6.89	9.81	13.57	21.06
Egyptian:					
FGF Sak	17.90	13.95	17.00	30.15	24.50
FGF Upper	14.50	9.90	14.30	19.80	22.60
FGF Pilon	14.75	10.40	15.40	22.10	23.10
Indian:					
Fine Broach	9.90	6.30	8.85	12.45	18.00
Fine Oomra, No. 1 . . .	9.15	6.25	8.35	12.40	16.10
Fine Bengal	8.40	5.50	7.75	11.90	14.70
Fine Surtee	10.40	6.80	9.30	13.20	18.60
South American:					
Fair Peruvian	11.33	7.00	14.00	14.82	21.46
Fair Parahyba	11.33	7.19	10.31	14.82	20.83
Fair Sao Paulo	10.58	6.19	9.31	13.82	20.38

Relative Wholesale Prices of Cotton Yarn and Cotton Fabrics in Comparison with Other Groups of Commodities, from 1918 to 1928 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Yarn 10-1 Carded	Pepperell Brown Sheeting 4-4	Lonsdale Bleached Muslin 4-4	Farm Prod- ucts	Foods	Fuel and Light- ing	Metals and Metal Prod- ucts	Build- ing Mat- terials	Chem- icals and Drugs	House Fur- nish- ing Goods	All Com- modi- ties
Average of 1913	100	100	100	100	100	100	100	100	100	100	100
January, 1918 .	242.3	232.6	218.3	211	182	164	183	161	223	137	184
April, 1918 .	278.4	327.4	279.0	213	181	166	184	169	228	144	190
July, 1918 .	289.7	- ¹	303.2	217	185	175	189	177	209	159	196
October, 1918 .	275.6	274.6	303.2	225	198	176	192	177	211	164	202
January, 1919 .	201.3	260.6	258.5	224	203	178	175	176	181	167	199
April, 1919 .	188.5	204.6	218.1	230	205	177	153	169	160	167	199
July, 1919 .	267.1	299.0	338.5	241	210	181	160	209	167	183	212
October, 1919 .	276.1	313.0	363.9	227	205	189	162	229	173	194	211
January, 1920 .	328.6	389.1	399.9	247	231	194	175	274	189	239	233
April, 1920 .	351.7	- ¹	412.4	243	238	231	203	300	210	242	245
July, 1920 .	316.7	- ¹	412.4	233	238	259	202	269	212	275	241
October, 1920 .	196.3	274.2	296.2	187	201	280	191	240	198	271	211
January, 1921 .	130.1	165.6	190.8	143	162	247	153	192	153	217	170
April, 1921 .	107.9	136.4	188.0	117	144	205	138	167	135	216	148
July, 1921 .	108.9	136.4	169.8	119	141	186	124	160	129	180	141
October, 1921 .	173.2	184.2	200.1	124	140	189	116	159	131	180	142
January, 1922 .	147.3	160.3	181.9	122	131	195	112	157	124	178	138
April, 1922 .	141.7	153.5	169.8	129	137	194	113	156	124	175	143
July, 1922 .	170.7	174.8	182.3	135	142	254	121	170	121	173	155
October, 1922 .	176.5	183.9	194.1	138	140	226	135	183	124	176	154
January, 1923 .	196.7	199.3	202.7	143	141	218	133	188	131	184	156
April, 1923 .	202.4	211.5	212.2	141	144	200	154	204	136	187	159
July, 1923 .	182.5	197.8	194.1	135	141	183	145	190	128	187	151
October, 1923 .	208.1	204.6	200.1	144	148	172	142	182	129	183	153
January, 1924 .	233.4	225.1	218.3	144	143	169	142	181	132	176	151
April, 1924 .	202.3	211.5	206.2	139	137	179	139	182	128	175	148
July, 1924 .	197.8	211.5	201.7	134	136	175	132	173	127	172	147
October, 1924 .	187.7	204.6	206.2	143	148	168	128	171	131	171	152
January, 1925 .	183.6	201.2	206.2	163	160	168	136	179	135	173	160
April, 1925 .	173.3	201.2	209.3	153	154	169	129	174	134	171	156
July, 1925 .	174.3	177.4	180.3	162	157	172	126	170	133	169	160
October, 1925 .	179.4	180.8	200.1	155	158	172	128	174	135	168	158
January, 1926 .	164.0	180.8	194.1	152	156	177	129	178	133	165	156
April, 1926 .	153.2	180.8	194.1	145	153	174	127	173	130	163	151
July, 1926 .	142.2	163.7	183.3	141	154	177	126	172	131	161	151
October, 1926 .	133.9	158.3	185.0	139	152	184	127	172	129	160	150
January, 1927 .	118.2	146.7	169.8	137	150	180	124	170	122	157	147
April, 1927 .	121.8	146.7	169.8	137	147	161	122	165	122	157	144
July, 1927 .	137.9	162.1	169.8	140	146	159	119	162	121	157	145
October, 1927 ² .	109.0	114.2	97.5	107	100	84	97	92	97	99	97
Average of 1926	100	100	100	100	100	100	100	100	100	100	100

¹ No quotation.

² October figures based on average of 1926.

Actual Prices of Cotton in Comparison with Other Basic Raw Materials, from 1918 to 1928 by Quarters

Source: United States Bureau of Labor Statistics

	Cotton Middling Upland (per Pound)	Wool 1-3 Grades Scoured (per Pound)	Wheat No. 1 Northern (per Bushel)	Corn Contract Grade (per Bushel)	Cattle Good to Choice Steers (per 100 Pounds)	Copper Electro- lytic (per Pound)	Iron Bessemer, Pig (per 2,240 Pounds)	Coal, Bitu- minous (per 2,000 Pounds)
Average of 1913	\$0.128	\$0.471	\$0.874	\$0.625	\$8.507	\$0.157	\$17.133	\$2.200
January, 1918 .	.324	1.455	2.170	1.775	13.113	.235	37.250	3.600
April, 1918 .	.317	1.455	2.170	1.665	15.175	.235	36.150	3.600
July, 1918 .	.312	1.437	2.170	1.665	17.625	.255	36.600	4.100
October, 1918 .	.325	1.437	2.216	1.385	17.856	.260	36.600	4.100
January, 1919 .	.296	1.200	2.223	1.401	18.413	.204	33.600	4.100
April, 1919 .	.290	1.091	2.589	1.609	18.325	.153	29.350	4.000
July, 1919 .	.351	1.236	2.680	1.920	16.869	.215	29.350	4.000
October, 1919 .	.355	1.236	2.625	1.400	17.594	.217	29.350	4.500
January, 1920 .	.393	1.236	2.931	1.503	15.938	.193	40.400	4.100
April, 1920 .	.424	1.200	3.006	1.706	13.906	.192	43.650	5.500
July, 1920 .	.410	.909	2.831	1.549	15.381	.190	47.150	6.000
October, 1920 .	.226	.727	2.106	.888	14.688	.168	49.210	7.100
January, 1921 .	.167	.546	1.788	.682	9.840	.129	33.960	5.600
April, 1921 .	.121	.527	1.406	.578	8.719	.125	26.960	4.850
July, 1921 .	.124	.491	1.438	.614	8.406	.125	22.835	4.600
October, 1921 .	.197	.473	1.319	.470	8.875	.127	21.960	4.100
January, 1922 .	.179	.582	1.300	.484	8.150	.136	21.560	3.750
April, 1922 .	.181	.727	1.563	.588	8.406	.126	22.585	3.600
July, 1922 .	.223	.818	1.423	.643	9.700	.137	26.770	5.390
October, 1922 .	.228	.836	1.132	.691	10.245	.137	35.170	6.390
January, 1923 .	.275	.982	1.221	.711	9.780	.146	29.270	5.640
April, 1923 .	.290	1.018	1.279	.793	9.015	.169	32.770	4.890
July, 1923 .	.259	1.000	1.084	.857	10.590	.144	28.464	3.890
October, 1923 .	.301	.946	1.172	1.011	10.450	.126	26.960	3.890
January, 1924 .	.347	.982	1.151	.759	9.469	.126	24.760	3.640
April, 1924 .	.299	.964	1.131	.790	10.775	.133	24.560	3.390
July, 1924 .	.291	.873	1.296	1.055	9.563	.124	21.960	3.390
October, 1924 .	.245	1.055	1.434	1.105	9.500	.130	21.760	3.390
January, 1925 .	.240	.700	1.819	1.271	10.594	.148	24.635	3.390
April, 1925 .	.243	.550	1.549	1.082	9.988	.133	22.885	3.390
July, 1925 .	.243	.520	1.591	1.065	11.563	.140	20.760	3.390
October, 1925 .	.211	.530	1.549	.828	11.903	.143	21.385	3.390
January, 1926 .	.208	.530	1.728	.804	9.875	.138	22.760	3.490
April, 1926 .	.194	.450	1.610	.728	9.125	.137	21.385	3.390
July, 1926 .	.182	.430	1.693	.804	9.419	.139	20.385	3.390
October, 1926 .	.128	.450	1.433	.777	9.888	.139	20.885	- ¹
January, 1927 .	.134	.440	1.413	.768	10.295	.130	21.260	3.890
April, 1927 .	.146	.430	1.341	.735	12.281	.128	21.260	3.390
July, 1927 .	.180	.440	1.440	1.021	12.300	.125	20.260	3.640
October, 1927 ² .	.211	.470	1.275	.878	8.425	.130	19.760	4.199
Average of 1926	.175	.456	1.554	.751	9.387	.138	21.324	3.603

¹ Quotations not received.² October figures based on average of 1926.

Relative Prices of Cotton in Comparison with Other Basic Raw Materials, from 1918 to 1928 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Middling (Upland)	Wool 1-3 Grades Scoured	Wheat No. 1 Northern	Corn Contract Grade	Cattle Good to Choice Steers	Copper Electro- lytic	Iron Bessemer, Pig	Coal, Bitu- minous
Average of 1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1918	253.1	308.9	248.3	284.0	154.1	149.7	217.4	162.7
April, 1918	247.7	308.9	248.3	266.4	178.4	149.7	211.0	162.7
July, 1918	243.8	305.1	248.3	266.4	207.2	162.4	213.6	186.4
October, 1918	253.9	305.1	253.5	221.6	209.9	165.6	213.6	186.4
January, 1919	231.3	254.8	254.3	224.2	216.4	129.9	196.1	186.4
April, 1919	226.6	231.6	296.2	257.4	215.4	97.5	171.3	181.8
July, 1919	274.2	262.4	306.6	307.2	198.3	136.9	171.3	181.8
October, 1919	277.3	262.4	300.3	224.0	206.8	138.2	171.3	204.5
January, 1920	307.1	258.4	335.6	240.4	187.3	122.8	235.8	186.4
April, 1920	331.4	250.6	344.2	273.0	163.5	122.0	254.8	250.0
July, 1920	320.6	189.9	324.1	247.8	180.8	120.8	275.2	272.7
October, 1920	176.8	151.9	241.1	142.0	172.7	106.5	287.2	322.7
January, 1921	130.6	114.0	204.7	109.1	115.7	81.9	198.2	254.5
April, 1921	94.9	110.1	160.9	92.5	102.5	79.3	157.4	220.5
July, 1921	96.6	102.6	164.7	98.2	98.8	79.7	133.3	209.1
October, 1921	154.0	98.7	151.0	75.1	104.3	80.6	128.2	186.4
January, 1922	140.0	121.6	148.8	77.4	95.8	86.1	125.8	170.5
April, 1922	141.5	151.9	178.9	94.1	98.8	80.3	131.8	163.6
July, 1922	174.6	170.9	162.8	102.8	114.0	87.2	156.3	245.0
October, 1922	178.0	174.8	129.6	110.6	120.4	87.0	205.3	290.5
January, 1923	214.7	205.2	139.8	113.7	115.0	92.5	170.8	256.4
April, 1923	226.3	212.7	146.4	126.8	106.0	107.5	191.3	222.3
July, 1923	202.3	208.8	124.1	137.1	124.5	91.7	166.1	176.8
October, 1923	234.9	197.6	134.2	161.7	122.8	80.3	157.4	176.8
January, 1924	271.4	205.2	131.7	121.3	111.3	80.1	144.5	165.5
April, 1924	233.6	201.3	129.5	126.4	126.7	84.2	143.4	154.1
July, 1924	229.1	182.3	148.4	168.7	112.4	78.5	128.2	154.1
October, 1924	191.6	220.2	164.2	176.8	111.7	82.6	127.0	154.1
January, 1925	188.0	266.0	208.3	203.3	109.5	94.0	143.8	154.1
April, 1925	191.6	218.2	168.7	173.1	117.4	84.8	133.6	154.1
July, 1925	190.9	206.3	181.3	170.3	135.9	88.8	121.2	154.1
October, 1925	165.8	210.2	169.2	132.4	140.0	91.2	124.8	154.1
January, 1926	158.6	201.4	197.8	128.7	116.1	87.8	132.8	158.6
April, 1926	142.4	178.5	184.3	116.4	107.3	87.2	124.8	154.1
July, 1926	143.6	170.6	193.8	128.6	110.7	88.4	119.0	154.1
October, 1926	100.6	178.5	164.0	124.2	116.2	83.3	121.9	- ¹
January, 1927	103.5	174.5	161.7	122.8	121.0	82.8	124.1	176.8
April, 1927	114.5	170.6	153.5	117.6	150.0	81.6	124.1	165.5
July, 1927	140.7	170.4	166.6	163.4	144.6	79.3	118.3	165.5
October, 1927	120.3	102.9	82.4	115.7	129.8	94.1	92.7	97.3
Average of 1926	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

¹ Quotations not received.

Prices of Staple Cotton Yarns in the United States on First of Each Quarter during Years 1916 to 1927, inclusive

[Prices are per pound]

Source: Daily News Record and Textile World

DATE	10s Single Southern Carded Frame Cones	20/2 Southern Carded Skeins	60/2 Eastern Combed Peeler Warps
January 1, 1916	20 to 22	25 to 27	61 to 66
April 1, 1916	20½ to 22	26 to 27	66 to 71
July 1, 1916	23¼ to 24	28 to 31	76 to 81
October 1, 1916	29 to 31	33½ to 35	97 to 1 02
January 1, 1917	35 to 37	39 to 41	1 10 to 1 15
April 1, 1917	34 to 36	36½ to 38	93 to 95
July 1, 1917	44 to 46	43 to 46	1 10 to 1 15
October 1, 1917	41 to 42	42 to 45	1 10 to 1 15
January 1, 1918	50 to 52	55 to 58	1 20 to 1 25
April 1, 1918	60 to 61	67 to 68	1 20 to 1 25
July 1, 1918	61 to 63	71 to 73	1 20 to 1 25
October 1, 1918	61 to 63	73 to 75	1 20 to 1 25
January 1, 1919	50 to 53	62 to 65	1 20 to 1 30
April 1, 1919	41 to 43	46 to 50	1 05 to 1 10
July 1, 1919	55 to 57	67 to 69	1 55 to 1 60
October 1, 1919	60 to 63	70 to 72½	1 90 to 1 95
January 1, 1920	69 to 73	84 to 85	3 50
April 1, 1920	74 to 77	90 to 92	3 75
July 1, 1920	70 to 75	80 to 85	2 50
October 1, 1920	42 to 45	50 to 55	1 50
January 1, 1921	28 to 29	31 to 32	85
April 1, 1921	21 to 22	23 to 24	80
July 1, 1921	21 to 22	22½ to 23	85 to 95
October 1, 1921	35 to 37	36½ to 38	1 10
January 1, 1922	30½ to 31	33½ to 34	1 10
April 1, 1922	28½	31½	1 05
July 1, 1922	35	39	1 05
October 1, 1922	34 to 34½	38 to 38½	1 00
January 1, 1923	41½ to 42	49 to 49½	1 10 to 1 18
April 1, 1923	45½	54	1 05 to 1 15
July 1, 1923	39 to 39½	44½ to 45	95 to 1 05
October 1, 1923	44	49½ to 50	95 to 1 00
January 1, 1924	50	55	1 05 to 1 15
April 1, 1924	40½	44 to 44½	78 to 82
July 1, 1924	40	43½	74 to 78
October 1, 1924	40	44 to 44½	74 to 77
January 1, 1925	39	44½	77 to 80
April 1, 1925	39	43	76 to 79
July 1, 1925	36	38 to 38½	70 to 74
January 1, 1926	33½ to 34	36	88 to 90 ¹
April 1, 1926	30	33½	77 to 78
July 1, 1926	27½	30½	77 to 80
October 1, 1926	26	29½	67½ to 70
January 1, 1927	23½	26½ to 27	57 to 60
April 1, 1927	24½	28½ to 29	62 to 65
July 1, 1927	27½	30 to 31	67 to 69
October 1, 1927	34½	39 to 40	80 to 85
January 1, 1928	32	36½ to 37	68 to 71

¹ 1926 figures are for 60/2 Southern combed, as Eastern combed were not reported.

Prices of Carded Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1927

[Prices are per pound]

Compiled by Frederick B. Macy & Co., New Bedford

DATE	CARDED SINGLE WARPS				CARDED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton 1 ³ / ₈ in- ches (in Cents) ¹
	8s	20s	30s	40s	8s	20s	30s	40s		
January 3 . . .	\$0 24	\$0 30	\$0 34	\$0 46	\$0 25	\$0 33	\$0 36	\$0 48	12.80	21 ¹ / ₂
8 . . .	24	30	34	46	25	33	36	48	13.15	21 ¹ / ₂
15 . . .	24	30	34	46	25	33	36	48	13.55	21 ¹ / ₂
22 . . .	25	30	34	46	26	33	38	48	13.65	21 ¹ / ₂
29 . . .	25	30	35	46	26	33	38	48	13.65	21 ¹ / ₂
February 4 . . .	25	30	35	46	26	33	38	48	14.00	21 ¹ / ₂
12 . . .	25	30	35	46	26	33	38	48	14.10	21 ¹ / ₂
19 . . .	26	30	35	47	27	33	38	50	14.10	21 ¹ / ₂
26 . . .	26	31	35	47	27	34	38	50	14.40	22
March 1 . . .	26	31	35	47	27	34	38	50	14.85	22
5 . . .	26	31	35	46	27	34	38	48	14.40	22
12 . . .	26	30	35	46	27	33	38	48	14.20	22
19 . . .	25	30	35	46	26	33	38	48	14.05	21 ¹ / ₂
26 . . .	25	29 ¹ / ₂	35	45	26	33	38	47	14.40	21 ¹ / ₂
April 1 . . .	25	29 ¹ / ₂	35	45	26	33	38	47	14.40	21 ¹ / ₂
8 . . .	25	29 ¹ / ₂	35	45	26	33	38	47	14.45	21 ¹ / ₂
15 . . .	25	29	35	45	26	33	38	47	14.50	21 ¹ / ₂
22 . . .	24	29	35	44	25	33	37	46	15.05	22 ¹ / ₂
29 . . .	24	29	35	44	25	33	37	46	15.30	22 ¹ / ₂
May 2 . . .	24	29	35	44	25	33	37	46	15.45	23 ¹ / ₂
7 . . .	25	30	35	45	26	34	37	47	15.95	24 ¹ / ₂
14 . . .	25	30	36	46	26	34	37	48	15.65	25
21 . . .	26	31	36	46	27	34	37	48	16.30	25 ¹ / ₂
28 . . .	27	31	37	47	28	35	38	50	16.75	26
June 4 . . .	27	31	37	47	28	35	38	50	16.75	26
13 . . .	27	32	37	47	28	36	38	50	16.60	26 ¹ / ₂
18 . . .	27	32	36	47	28	36	38	50	16.90	26
25 . . .	27	32	36	47	28	36	38	50	16.85	26 ¹ / ₂
30 . . .	27	32	36	47	28	36	38	50	17.05	26 ¹ / ₂
July 2 . . .	27	32	36	47	28	36	38	50	17.15	26 ¹ / ₂
8 . . .	27	32	36	47	28	36	38	50	17.15	26 ¹ / ₂
16 . . .	27	34	38	48	28	38	39	51	18.30	27
23 . . .	28	35	39	49	29	40	40	52	18.55	27 ¹ / ₂
30 . . .	28	35	39	49	29	40	40	52	18.30	27
August 5 . . .	30	36	39	49	30	40	40	52	17.10	26 ¹ / ₂
13 . . .	31	37	40	50	32	42	42	53	18.90	28
20 . . .	33	38	42	52	34	43	44	55	21.10	29
27 . . .	34	39	44	54	35	44	46	57	22.60	30
September 3 . . .	34	39	44	54	35	44	46	57	22.60	31 ¹ / ₂
10 . . .	36	40	45	55	37	45	47	58	22.80	32 ¹ / ₂
17 . . .	35	40	44	55	36	45	47	58	21.25	30
24 . . .	35	40	45	55	36	45	47	58	20.85	29
30 . . .	35	40	45	55	36	45	47	58	21.80	30
October 1 . . .	35	40	45	55	36	45	47	58	21.80	30
8 . . .	35	40	45	55	36	45	47	58	21.75	29
15 . . .	34	39	45	55	35	44	46	57	21.50	28 ¹ / ₂
22 . . .	34	38	44	54	35	43	45	56	20.00	27 ¹ / ₂
29 . . .	34	38	44	54	35	43	45	56	20.70	28
November 5 . . .	34	38	44	54	35	43	45	56	21.25	28
12 . . .	34	38	44	54	35	43	45	56	20.30	27
19 . . .	33	38	42	52	35	43	44	54	19.80	26 ¹ / ₂
26 . . .	32	38	42	52	34	43	44	54	19.75	26 ¹ / ₂
December 3 . . .	32	38	42	52	34	43	44	54	19.95	26 ¹ / ₂
10 . . .	32	38	42	52	34	43	44	54	19.25	25 ¹ / ₂
17 . . .	32	39	42	52	34	43	44	54	19.45	25 ¹ / ₂
23 . . .	32	39	42	52	34	43	44	54	19.75	26 ¹ / ₂
31 . . .	32	39	42	53	34	43	45	55	20.10	26 ¹ / ₂

¹ New Bedford basis.

Prices of Combed Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1927

[Prices are per pound]

Source: Frederick B. Macy & Co., New Bedford

DATE	COMBED SINGLE WARPS				COMBED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton 1 $\frac{1}{8}$ In- ches (in Cents) ¹
	30s	40s	50s	60s	30s	40s	50s	60s		
January 3 . . .	\$0 55	\$0 62	\$0 69	\$0 78	\$0 60	\$0 68	\$0 78	\$0 90	12.80	21 $\frac{1}{2}$
8 . . .	55	62	69	78	60	68	78	90	13.15	21 $\frac{1}{2}$
15 . . .	55	62	69	78	60	68	78	90	13.55	21 $\frac{1}{2}$
22 . . .	56	64	70	80	61	70	78	90	13.65	21 $\frac{1}{2}$
29 . . .	56	64	70	80	61	70	78	90	13.65	21 $\frac{1}{2}$
February 4 . . .	56	64	70	80	61	70	78	90	14.00	21 $\frac{1}{2}$
12 . . .	56	64	70	80	61	70	78	90	14.10	21 $\frac{1}{2}$
19 . . .	56	64	70	80	61	70	78	90	14.10	21 $\frac{1}{2}$
26 . . .	56	64	70	80	61	70	78	90	14.40	22
March 1 . . .	56	64	70	80	61	70	78	90	14.85	22
5 . . .	56	64	70	80	61	70	78	90	14.40	22
12 . . .	54	62	68	78	59	68	76	90	14.20	22
19 . . .	52	60	67	78	57	66	75	88	14.05	21 $\frac{1}{2}$
26 . . .	52	60	67	78	57	66	75	88	14.40	21 $\frac{1}{2}$
April 1 . . .	52	60	67	78	57	66	75	88	14.40	21 $\frac{1}{2}$
8 . . .	52	60	67	78	57	66	75	88	14.45	21 $\frac{1}{2}$
15 . . .	52	60	67	78	57	66	75	88	14.50	21 $\frac{1}{2}$
22 . . .	52	60	67	78	57	66	75	88	15.05	22 $\frac{1}{2}$
29 . . .	52	60	67	80	57	66	75	88	15.30	22 $\frac{1}{2}$
May 2 . . .	52	60	67	80	57	66	75	88	15.45	23 $\frac{1}{2}$
7 . . .	55	65	70	82	58	67	77	88	15.95	24 $\frac{1}{2}$
14 . . .	55	65	70	83	58	67	77	88	15.65	25
21 . . .	55	65	70	83	60	68	77	90	16.30	25 $\frac{1}{2}$
28 . . .	55	65	72	85	60	70	80	92	16.75	26
June 4 . . .	55	66	72	85	60	70	80	92	16.75	26
13 . . .	55	68	73	85	60	70	80	92	16.60	26 $\frac{1}{2}$
18 . . .	55	66	73	85	60	70	80	92	16.90	26
25 . . .	54	66	72	85	58	70	78	92	16.85	26 $\frac{1}{2}$
30 . . .	54	65	72	84	58	70	78	90	17.05	26 $\frac{1}{2}$
July 2 . . .	54	65	72	84	58	70	78	90	17.15	26 $\frac{1}{2}$
8 . . .	54	65	72	84	58	70	78	90	17.15	26 $\frac{1}{2}$
16 . . .	54	65	74	84	58	70	80	90	18.30	27
23 . . .	54	65	76	86	58	70	82	92	18.55	27 $\frac{1}{2}$
30 . . .	55	65	76	86	60	70	82	92	18.30	27
August 5 . . .	55	65	76	86	60	70	82	92	17.10	26 $\frac{1}{2}$
13 . . .	57	67	78	88	62	72	84	94	18.90	28
20 . . .	59	68	78	88	64	74	84	95	21.10	29
27 . . .	60	69	80	90	65	75	86	97	22.60	30
September 3 . . .	60	69	80	90	65	75	86	97	22.60	31 $\frac{1}{2}$
10 . . .	60	69	80	90	65	75	86	97	22.80	32 $\frac{1}{2}$
17 . . .	60	69	80	90	65	75	86	95	21.25	30
24 . . .	60	69	80	86	65	75	86	95	20.85	29
30 . . .	60	69	80	90	65	75	86	100	21.80	30
October 1 . . .	60	69	80	90	65	75	86	100	21.80	30
8 . . .	60	69	80	90	65	75	86	100	21.75	29
15 . . .	60	69	80	90	65	75	86	100	21.50	28 $\frac{1}{2}$
22 . . .	60	68	80	90	65	74	86	100	20.00	27 $\frac{1}{2}$
29 . . .	60	68	80	90	65	74	86	100	20.70	28
November 5 . . .	60	68	80	90	65	74	86	100	21.25	28
12 . . .	60	66	78	88	65	72	84	98	20.30	27
19 . . .	60	65	75	85	65	70	82	95	19.80	26 $\frac{1}{2}$
26 . . .	60	65	75	85	65	70	82	95	19.75	26 $\frac{1}{2}$
December 3 . . .	60	65	75	85	65	70	82	95	19.95	26 $\frac{1}{2}$
10 . . .	60	65	75	85	65	70	82	95	19.25	25 $\frac{1}{2}$
17 . . .	60	65	75	88	65	70	82	100	19.45	25 $\frac{1}{2}$
23 . . .	60	65	75	88	65	70	82	100	19.75	26 $\frac{1}{2}$
31 . . .	60	65	75	88	65	70	82	100	20.10	26 $\frac{1}{2}$

¹ New Bedford basis.

Prices of Staple Cotton Yarns in the United States during the Year 1927

[Prices are cents per pound]

Source: Daily News Record

DATE			16s Single Southern Carded Frame Warps	16/2 Southern Carded Skeins	40/2 Southern Carded Warps	36s Northern Mule Spun Combed Peeler Cones
January	4	.	26	25½-26	40	50
	15	.	27	26½-27	41	50
	25	.	27 -27½	27 -27½	41 -42	50
February	1	.	27 -27½	27 -27½	41 -42	50
	7	.	27½-28	27½-28	41½-42	50
	28	.	27½-28	27½-28	42½-43	50
March	3	.	27½-28	27½-28	42½-43	50
	14	.	27½-28	27½-28	42½-43	50
	31	.	27½-28	27½-28	42½-43	50
April	5	.	27½-28	27½	43	50
	18	.	27 -27½	27	42	50
	30	.	27	26½	42	49
May	6	.	27½	27	43	52
	11	.	28	27½	44	52
	21	.	28	27 -27½	44	52
	25	.	29	28½	45	52
June	4	.	29½	29 -29½	45	56-58
	20	.	29½	29½	46	56-58
	27	.	29	29	46	56-58
July	2	.	29	29	46	55
	12	.	29½	29½	46	55
	20	.	30½	30	46 -47	55
	30	.	32	31 -31½	47 -48½	57
August	1	.	32	31½-32	47 -48½	57
	23	.	35½	35	51	58
	29	.	37	36½	52½	60
September	9	.	39½	39	55	63
	15	.	38	37½	54	63
	22	.	37½	37	54	63
October	4	.	37½	37	54	63
	24	.	36 -36½	37 -37½	51 -52	63
	31	.	36½	36½	52	61
November	4	.	36½	36½	52	61
	17	.	34½	35	49	61
	30	.	34½	35	49	61
December	1	.	34½	35	49	61
	9	.	34	34	49	60
	23	.	33½	33½	49	60
	31	.	34½	36½	49	60

Prices of Gray Cloths and Spot Cotton, Week by Week, during 1927

[Prices are cents per yard]

Source: Daily News Record

DATE		64 x 60 27-Inch 7.60 Yards.	68 x 72 39-Inch 4.75 Yards.	48 x 48 37-Inch 4.00 Yards.	48 x 40 36-Inch 5.20 Yards	64 x 10½ 39-Inch 4.20 Sateen.	Cotton Mid-up Spot, N. Y.
January	7 . . .	4.60	7.38	6.25	5.25	11.00	12.97
	14 . . .	4.63	7.54	6.85	5.29	11.13	13.37
	21 . . .	4.73	7.71	7.13	5.38	11.25	13.59
	28 . . .	4.75	7.75	7.13	5.38	11.25	13.62
February	4 . . .	4.75	7.69	7.25	5.50	11.25	13.73
	11 . . .	4.75	7.65	7.25	5.50	11.25	14.15
	18 . . .	4.75	7.70	7.25	5.50	11.25	14.13
	25 . . .	4.75	7.63	7.25	5.50	11.25	14.17
March	4 . . .	4.81	7.80	7.31	5.56	11.30	14.60
	11 . . .	4.88	7.88	7.38	5.63	11.38	14.34
	18 . . .	4.88	7.88	7.31	5.63	11.38	14.07
	25 . . .	4.88	7.87	7.31	5.63	11.37	14.26
April	1 . . .	4.88	7.87	7.25	5.63	11.36	14.43
	8 . . .	4.88	7.87	7.25	5.63	11.36	14.38
	15 . . .	4.88	7.87	7.25	5.50	11.35	14.47
	22 . . .	4.88	7.88	7.25	5.50	11.35	14.88
	29 . . .	4.88	7.94	7.25	5.56	11.35	15.28
May	6 . . .	4.98	8.00	7.44	5.69	11.35	15.71
	13 . . .	5.00	8.13	7.50	5.75	11.35	15.76
	20 . . .	5.13	8.13	7.50	5.75	11.35	15.88
	27 . . .	5.25	8.15	7.69	5.88	11.35	16.53
June	3 . . .	5.30	8.37	7.88	5.90	11.50	16.96
	10 . . .	5.50	8.38	8.00	6.00	11.50	16.71
	17 . . .	5.50	8.41	8.00	6.00	11.50	16.84
	24 . . .	5.50	8.63	8.00	6.00	11.50	16.90
July	1 . . .	5.50	8.63	8.00	6.00	11.50	16.96
	8 . . .	5.50	8.63	8.00	6.00	11.50	17.12
	15 . . .	5.52	8.63	8.00	6.00	11.50	17.70
	22 . . .	5.63	8.75	8.21	6.20	11.50	18.33
	29 . . .	5.68	8.88	8.42	6.41	11.50	18.77
August	5 . . .	5.75	8.75	8.50	6.50	11.50	17.66
	12 . . .	5.94	9.13	8.85	6.60	11.63	19.23
	19 . . .	6.00	9.25	9.00	6.96	11.63	19.78
	26 . . .	6.17	9.56	9.31	7.35	11.75	21.45
September	2 . . .	6.42	9.96	9.83	7.71	12.25	22.76
	9 . . .	6.56	10.25	10.13	7.88	12.50	23.11
	16 . . .	6.54	10.13	10.04	7.88	12.75	22.01
	23 . . .	6.44	9.90	9.67	7.60	12.50	20.83
	30 . . .	6.38	9.77	9.50	7.50	12.50	21.64
October	7 . . .	6.38	9.75	9.50	7.50	12.50	21.39
	14 . . .	6.33	9.65	9.40	7.40	12.50	21.14
	21 . . .	6.24	9.52	9.20	7.31	12.30	20.82
	28 . . .	6.25	9.40	9.00	7.08	12.30	20.63
November	4 . . .	6.13	9.46	9.00	7.00	12.25	20.95
	11 . . .	6.04	9.35	8.95	6.98	12.25	20.57
	18 . . .	6.00	9.15	8.75	6.77	12.25	20.03
	25 . . .	5.90	9.02	8.63	6.75	12.25	19.98
December	2 . . .	5.75	8.81	8.50	6.56	12.00	19.58
	9 . . .	5.75	8.81	8.25	6.54	12.00	19.59
	16 . . .	5.63	8.77	8.13	6.46	12.00	19.03
	23 . . .	5.67	8.98	8.23	6.67	12.00	19.62
	30 . . .	5.75	9.13	8.31	6.75	12.00	20.09

Cotton Gray Goods Prices, December 31, 1927

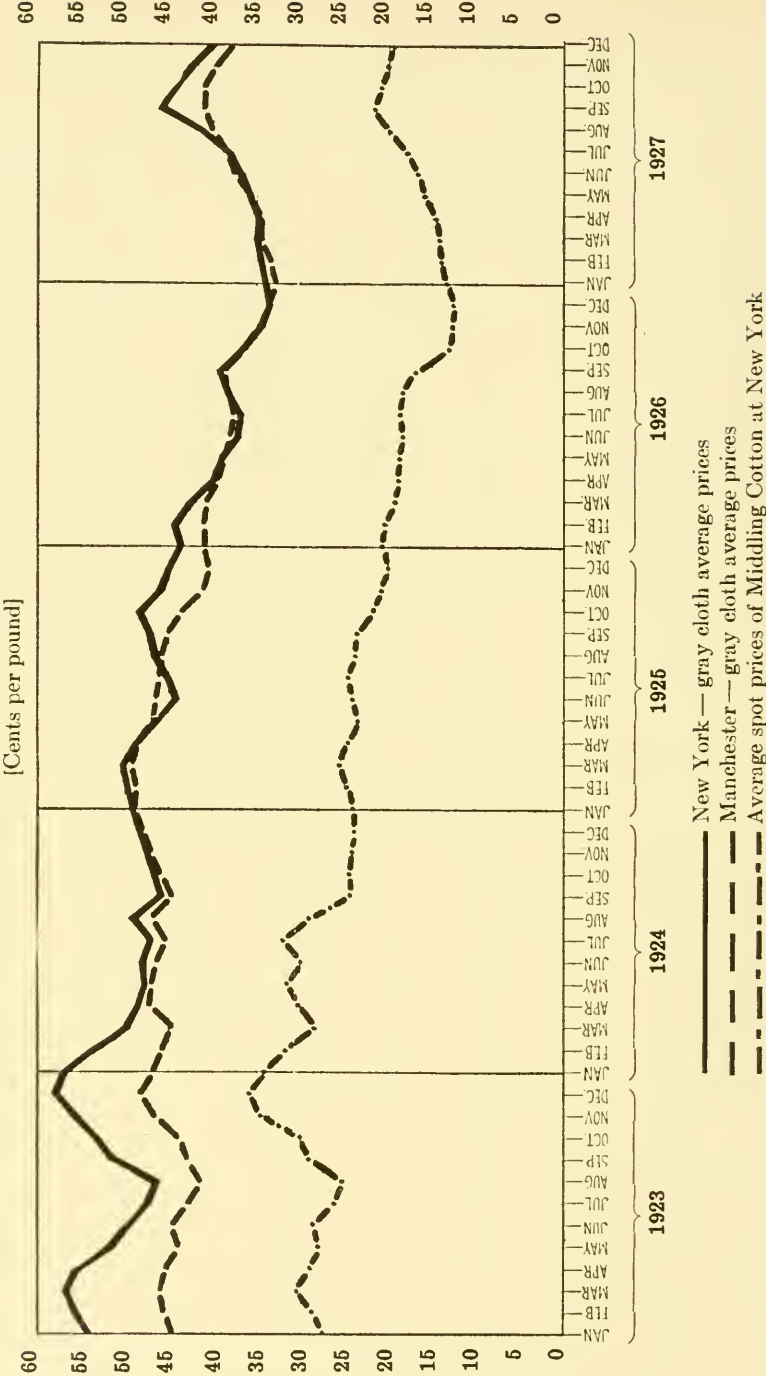
[Inventory Basis]

Source: Daily News Record

	Construction	Width	Yards per Pound	Cents per Yard
Print cloth	64 x 60	27-inch	7.60	5 $\frac{3}{4}$
Print cloth	56 x 44	25-inch	10.55	4 $\frac{1}{2}$
Print cloth	64 x 60	38 $\frac{1}{2}$ -inch	5.35	8 $\frac{1}{4}$
Print cloth	80 x 80	39-inch	4.00	11
Tobacco cloth	48 x 44	36-inch	7.75	6 $\frac{1}{4}$
Tobacco cloth	44 x 36	36-inch	9.20	5 $\frac{1}{4}$
Sheeting	56 x 60	36-inch	4.00	9 $\frac{5}{8}$
Sheeting	48 x 40	36-inch	5.50	6 $\frac{3}{4}$
Sheeting	48 x 48	37-inch	4.00	8 $\frac{3}{4}$
Sheeting	48 x 48	40-inch	2.50	13 $\frac{1}{4}$
Sheeting	48 x 48	40-inch	2.85	11 $\frac{5}{8}$
Drill	—	30-inch	2.50	14
Drill	—	37-inch	3.95	8 $\frac{1}{2}$
Jean	84 x 56	30-inch	4.00	10
Three-leaf twill	64 x 64	39-inch	5.10	8 $\frac{1}{2}$
Three-leaf twill	68 x 76	39-inch	4.50	9 $\frac{5}{8}$
Albert (carded)	64 x 80	35-inch	5.10	10 $\frac{3}{4}$
Filling sateen	64 x 112	39-inch	4.00	12 $\frac{3}{4}$
Domestic broadcloth	144 x 76	37-inch	4.40	38 $\frac{1}{2}$
Domestic broadcloth (carded)	112 x 60	37 $\frac{1}{2}$ -inch	4.40	12 $\frac{1}{2}$
Lawn (carded)	72 x 60	36-inch	10.00	8 $\frac{1}{4}$
Lawn (carded)	88 x 80	40-inch	6.00	13 $\frac{1}{2}$
Lawn (combed)	80 x 80	40-inch	9.00	13 $\frac{1}{4}$
Lawn (combed)	84 x 80	40-inch	10.50	16
Voile (slack twist)	60 x 52	40-inch	—	9 $\frac{1}{2}$
Voile (super hard twist)	60 x 56	40-inch	—	10
Poplin (carded)	100 x 44	37 $\frac{1}{2}$ -inch	3.90	15 $\frac{1}{2}$
Organdy	72 x 64	40-inch	13.00	13 $\frac{1}{4}$
Pongee	72 x 100	34-inch	7.00	12
Osnaburg (p. w.)	—	40-inch	7 oz.	13

17 $\frac{1}{4}$ -ounce square woven tire fabrics:	Cents per Pound
Carded Peeler	43 $\frac{1}{2}$
Cord tire fabrics:	
Carded Egyptian (uppers)	54
Carded peeler	45
Print cloth yarn doobby fancies	48

International Cotton Gray Cloth Prices



International Comparative Gray Cloth Prices

[Cents per pound at current exchange]

Source: United States Department of Commerce

WEEK ENDED		NEW YORK				MANCHESTER				OSAKA			
		1924	1925	1926	1927	1924	1925	1926	1927	1924	1925	1926	1927
January	8	57.47	48.92	43.61	33.67	47.44	49.06	41.21	32.74	46.00	-	-	-
	15	57.71	49.21	43.60	33.45	47.10	49.04	41.26	32.87	45.41	46.74	43.56	31.45
	22	56.83	49.43	43.82	34.22	46.28	48.98	41.32	33.15	45.02	46.64	43.20	31.98
	29	55.36	48.98	43.94	34.29	45.61	48.69	41.33	33.04	45.29	46.58	42.85	31.93
February	5	54.83	48.98	43.94	34.54	46.31	48.87	41.34	32.94	45.90	44.97	42.68	31.90
	12	54.32	49.52	44.43	34.46	46.70	48.74	41.33	33.16	46.77	44.88	42.38	33.82
	19	53.66	49.59	44.45	34.69	46.24	48.69	40.84	33.54	46.34	45.40	41.83	33.84
	26	51.62	50.06	44.53	34.29	44.30	48.60	40.84	34.18	45.13	44.95	43.17	35.45
March	5	50.75	50.04	43.78	34.44	44.86	49.07	41.18	34.45	44.76	45.24	40.82	35.32
	12	50.41	50.50	43.23	35.26	44.17	49.26	40.90	34.77	43.86	44.35	39.98	35.96
	19	50.01	50.28	41.33	35.09	44.54	49.21	40.80	34.47	42.82	45.20	39.45	35.55
	26	49.49	49.62	41.80	35.09	45.25	49.63	40.41	34.48	42.64	45.01	39.13	34.87
April	2	47.84	48.87	40.49	35.16	44.74	48.83	40.27	34.49	42.42	45.44	39.66	34.89
	9	47.06	49.07	40.32	34.94	45.65	48.59	39.08	34.49	42.52	44.25	40.43	34.41
	16	49.58	48.78	39.75	34.85	46.97	48.54	38.82	34.48	42.81	42.30	39.99	33.65
	23	49.35	48.24	39.31	34.85	48.27	48.31	38.83	34.49	41.78	43.56	39.96	32.99
	30	48.13	48.24	40.53	34.95	48.18	47.90	38.59	35.00	41.43	41.98	39.56	32.23
May	7	48.18	47.26	38.91	35.37	47.64	47.33	-1	35.25	42.14	43.00	38.85	33.71
	14	47.63	46.27	38.77	35.62	46.95	46.15	-1	35.19	41.85	41.38	38.11	35.10
	21	47.33	45.25	38.69	35.76	47.04	46.46	38.74	36.09	42.29	41.01	38.74	35.15
	28	47.40	44.93	38.29	35.92	46.99	46.57	38.73	36.74	41.34	41.53	37.85	34.33
June	4	48.14	44.54	37.62	36.66	46.77	46.76	38.78	37.51	41.51	41.77	38.38	35.00
	11	48.33	44.50	37.65	36.88	46.50	46.39	38.79	37.50	41.45	42.31	38.74	35.19
	18	48.26	44.21	37.16	36.94	45.85	46.63	37.67	37.50	41.63	42.81	38.39	34.93
	25	47.82	44.39	36.23	37.18	45.89	46.37	37.58	37.49	41.51	43.59	38.04	34.32
July	2	47.94	44.98	36.21	37.18	45.51	46.38	37.58	37.13	41.37	43.38	38.56	34.03
	9	47.16	44.98	36.15	37.53	44.77	45.75	37.09	37.87	41.55	44.91	39.29	-1
	16	46.89	45.35	36.78	37.53	44.45	46.53	37.70	38.60	41.34	45.54	39.44	-1
	23	46.70	45.42	37.47	38.47	45.23	45.99	37.61	38.83	41.51	44.21	40.32	34.21
	30	47.80	46.85	37.74	39.45	46.45	46.47	38.23	39.36	41.91	44.28	39.93	34.37
August	6	50.29	46.63	38.31	39.66	48.07	46.19	38.17	39.06	42.78	44.34	40.27	35.04
	13	49.99	46.63	38.32	40.97	47.72	45.91	37.84	40.66	43.81	44.81	40.03	34.76
	20	49.61	47.02	38.15	41.37	47.84	45.83	38.43	40.01	44.20	44.66	39.30	35.16
	27	48.72	46.44	38.56	43.09	46.19	45.52	38.98	40.87	43.83	44.69	38.45	35.84
September	4	47.59	45.88	39.23	45.49	45.30	44.49	38.94	42.02	44.05	44.10	38.44	35.46
	11	46.96	46.18	39.82	45.76	45.33	44.46	38.96	42.01	44.08	43.77	37.83	36.72
	18	45.86	47.82	39.43	46.87	44.57	45.54	38.88	41.36	43.84	44.29	36.98	37.31
	25	44.48	48.79	39.09	46.01	44.15	45.51	38.36	40.65	43.23	44.55	36.35	36.90
October	1	45.79	49.16	37.67	45.09	44.00	44.81	37.66	41.34	43.43	43.95	34.95	36.07
	8	47.23	49.08	37.00	44.97	45.70	44.30	36.63	41.30	43.96	43.97	34.93	36.00
	15	47.65	48.81	35.76	45.05	46.31	42.92	36.12	40.95	43.04	43.56	33.15	36.01
	22	45.76	47.92	35.47	43.94	45.94	42.92	35.62	41.03	43.12	43.19	33.07	36.32
	29	45.63	47.05	34.49	43.16	45.55	41.92	35.00	40.60	43.72	42.72	31.60	35.98
November	5	45.83	46.05	34.35	43.14	46.26	41.12	35.00	40.55	43.99	41.78	30.28	35.38
	12	45.98	45.71	34.24	42.94	47.01	41.05	35.00	40.47	44.15	42.53	30.32	35.27
	19	47.60	45.76	34.00	42.06	47.58	41.08	35.03	39.40	46.22	42.17	30.05	34.84
	26	48.48	45.74	34.12	41.34	47.62	41.15	34.31	39.15	46.34	42.68	30.62	34.54
December	3	48.74	45.87	34.07	40.82	47.85	40.85	34.22	37.17	47.34	42.21	31.24	34.32
	10	48.17	45.36	33.59	40.06	47.55	40.68	33.60	37.98	46.70	41.66	30.29	34.25
	17	47.88	44.82	33.51	39.79	48.11	39.89	33.61	37.48	46.79	40.61	30.38	33.86
	24	47.88	43.98	33.44	40.15	47.96	39.89	33.46	37.60	46.61	39.94	30.45	-1
	31	48.62	43.98	33.52	40.48	48.34	39.91	32.94	37.60	-	40.86	30.69	-1
Annual average		49.01	47.18	38.59	38.67	46.30	45.83	38.07	37.36	43.68	43.61	37.51	34.69

1 Prices not received.

Prices of Staple Cotton Cloths in the United States 1916 to 1927, inclusive

[Prices are per linear yard]

Source: Daily News Record

DATE	Print Cloth 38½", 64 x 60 5.35 Yards per Pound	Brown Sheeting 36", 56 x 60 4 Yards per Pound	Fine Lawn 40", 88 x 80 8.50 Yards per Pound
January 1, 1916	\$0 04 $\frac{3}{4}$	\$0 06	\$0 08
April 1, 1916	05 $\frac{5}{8}$	06 $\frac{1}{4}$ to	09 $\frac{1}{2}$
July 1, 1916	05 $\frac{3}{4}$	06 $\frac{5}{8}$ to	09 $\frac{3}{4}$
October 1, 1916	06	08	11
January 1, 1917	07 $\frac{1}{2}$	09 $\frac{3}{4}$	12
April 1, 1917	08 $\frac{1}{4}$	09 $\frac{1}{2}$ to	11 $\frac{1}{2}$
July 1, 1917	10 $\frac{3}{4}$	13	12 $\frac{3}{4}$
October 1, 1917	09 $\frac{3}{4}$	12 $\frac{1}{2}$ to	12
January 1, 1918	12	15 $\frac{1}{4}$	13
April 1, 1918	17 $\frac{1}{2}$	21	19 $\frac{1}{2}$
July 1, 1918	18 $\frac{3}{4}$	23	23 $\frac{1}{2}$
October 1, 1918	09 $\frac{3}{4}$	17 $\frac{1}{2}$	25 $\frac{1}{2}$
January 1, 1919	12 $\frac{1}{4}$	16	19 $\frac{1}{2}$
April 1, 1919	09 $\frac{3}{4}$	12	16
July 1, 1919	17	18 $\frac{1}{2}$	26 $\frac{1}{2}$
October 1, 1919	17	19 $\frac{1}{2}$ to	29
January 1, 1920	20 $\frac{1}{4}$	25	40
April 1, 1920	23	26 $\frac{1}{2}$ to	40
July 1, 1920	20	22 $\frac{1}{2}$	29
October 1, 1920	12 $\frac{1}{2}$	15 $\frac{1}{2}$	24 $\frac{1}{2}$
January 1, 1921	08	09 $\frac{3}{4}$	15 $\frac{1}{2}$
April 1, 1921	06 $\frac{5}{8}$	08	14 $\frac{1}{4}$
July 1, 1921	06 $\frac{3}{4}$	07 $\frac{1}{4}$	13 $\frac{1}{2}$
October 1, 1921	09 $\frac{1}{2}$	11 $\frac{1}{2}$	16 $\frac{1}{2}$
January 1, 1922	09	09 $\frac{3}{4}$	15 $\frac{3}{4}$
April 1, 1922	07 $\frac{3}{4}$	09	14 $\frac{1}{2}$
July 1, 1922	08 $\frac{1}{2}$	10 $\frac{1}{4}$	15 $\frac{1}{4}$
October 1, 1922	09	10 $\frac{3}{8}$ to	15
January 1, 1923	10 $\frac{3}{8}$	12 to	15 $\frac{1}{2}$
April 1, 1923	10 $\frac{1}{2}$	12 $\frac{3}{4}$	16
July 1, 1923	09 $\frac{1}{2}$	11 $\frac{1}{4}$	15 $\frac{1}{4}$
October 1, 1923	09 $\frac{1}{4}$	12 $\frac{1}{4}$	15 $\frac{1}{2}$
January 1, 1924	11	13 $\frac{1}{2}$	15 $\frac{3}{4}$
April 1, 1924	09 $\frac{1}{4}$	11	14 $\frac{3}{4}$
July 1, 1924	08 $\frac{3}{4}$	10 $\frac{3}{4}$	14 $\frac{1}{2}$
October 1, 1924	09	11	14 $\frac{1}{2}$
January 1, 1925	09 $\frac{1}{4}$	10 $\frac{7}{8}$	14 $\frac{1}{4}$
April 1, 1925	09	10 $\frac{3}{8}$	14 $\frac{1}{2}$
July 1, 1925	09 $\frac{1}{4}$	09 $\frac{3}{4}$	13 $\frac{3}{4}$
October 1, 1925	09 $\frac{1}{4}$	11 $\frac{5}{8}$	14
January 1, 1926	08 $\frac{3}{4}$	09 $\frac{3}{4}$	13 $\frac{3}{4}$
April 1, 1926	07 $\frac{3}{4}$	09 $\frac{1}{2}$	13 $\frac{1}{2}$
July 1, 1926	07	08 $\frac{1}{2}$	13 $\frac{1}{4}$
October 1, 1926	07 $\frac{3}{8}$	08 $\frac{1}{8}$	12 $\frac{3}{4}$
January 1, 1927	06	07 $\frac{3}{4}$	12 $\frac{1}{4}$
April 1, 1927	06 $\frac{3}{4}$	08	12 $\frac{1}{4}$
July 1, 1927	07 $\frac{1}{4}$	08 $\frac{1}{2}$	12
October 1, 1927	08 $\frac{3}{4}$	10 $\frac{3}{4}$	13
January 1, 1928	08	09 $\frac{5}{8}$	12 $\frac{3}{4}$

Average Yearly Print Cloth Prices

Source: Daily News Record

YEAR	25-Inch 56 x 44 10.55 Yard	27-Inch 64 x 60 7.60 Yard	38½-Inch 44 x 40 8.20 Yard	38½-Inch 60 x 48 6.25 Yard	38½-Inch 64 x 60 5.35 Yard	39-Inch 68 x 72 4.75 Yard	39-Inch 72 x 76 4.25 Yard	39-Inch 80 x 80 4.00 Yard	Average Cotton Goods Prices ¹	New York Middling Spot Cotton
Pre-war average (1911-12-13)	2.492	3.308	3.237	4.243	4.852	5.470	6.158	6.942	8.054	12.55
1914	2.299	3.071	3.146	3.774	4.465	5.111	5.769	6.403	7.851	11.81
1915	2.152	2.900	2.800	3.544	4.050	4.673	5.359	5.989	7.338	10.08
1916	3.059	4.118	4.178	5.200	6.031	6.781	7.370	8.011	9.860	14.45
1917	5.113	6.656	6.307	8.046	9.399	10.701	11.853	12.795	15.074	23.80
1918 ²	8.232	11.513	10.300	14.029	15.152	18.338	20.332	20.930	23.533	31.59
1919	8.010	9.869	9.300	12.650	13.700	16.695	19.258	21.670	21.912	32.37
1920	9.848	12.336	12.100	15.848	17.280	18.788	21.649	23.915	26.000	33.79
1921	3.953	5.079	4.855	6.565	7.710	8.869	9.635	11.387	13.018	15.05
1922	5.076	6.823	6.276	7.962	8.943	10.008	11.622	12.605	15.090	22.44
1923	5.426	7.461	7.052	8.835	10.198	11.721	12.646	13.608	17.145	29.30
1924	4.887	6.780	6.227	7.875	9.063	10.382	11.837	13.279	16.084	28.75
1925	4.786	6.535	6.183	7.981	9.222	10.541	11.802	12.700	15.097	23.43
1926	3.845	5.196	5.016	6.398	7.491	8.547	9.587	10.593	12.858	17.50
1927	4.115	5.490	5.053	6.533	7.586	8.616	9.692	10.459	12.663	17.55

¹ This average includes, among others, eight print cloths, five sheetings, four drills, four standard colored goods, four bleached goods and two ducks.² In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased and there was practically no market. This may explain some figures which would otherwise seem irregular.

Average Yearly Standard Colored Goods and Bleached Goods Prices

Source: Daily News Record

CLOTHS	Pre-war Average (1911-12-13)	1918 ¹	1919	1920	1921	1922	1923	1924	1925	1926	1927
Standard 2.20 denim . . .	11.485	34.500	30.062	38.250	15.666	19.486	23.826	21.456	18.912	15.425	16.115
Standard fine chambray, about 5.00 yard	6.625	19.875	20.500	34.620	12.375	14.281	14.230	12.466	12.057	9.925	10.344
Standard 3.80 work shirt cham- bray	6.916	22.650	17.444	25.200	11.156	13.929	15.403	14.014	13.465	11.613	11.426
27-inch Eastern Standard staple gingham	6.194	17.694	18.178	19.305	12.329	13.820	14.395	12.207	11.146	8.937	9.486
Standard 8-ounce ticking . . .	13.138	39.034	33.400	28.030	19.250	23.156	26.740	25.866	23.658	19.236	20.016
Standard branded bleached mus- lin, Class A	8.432	24.000	25.045	33.500	16.684	17.278	18.497	18.337	17.996	16.611	16.123
Standard branded bleached mus- lin, Class B	7.235	20.570	21.300	21.300	13.330	13.812	15.014	14.805	14.206	12.507	11.849
10/4 bleached wide sheeting, Class A	25.857	64.205	67.819	71.042	50.730	52.091	57.484	56.397	52.277	48.335	45.841
10/4 bleached wide sheeting, Class B	22.308	58.290	60.594	64.200	46.215	47.104	51.346	50.295	46.708	41.075	38.979

¹ In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased, and there was practically no market. This may explain some figures which would otherwise seem irregular.

Cotton Finishing Industry ¹

Source: National Association of Finishers of Cotton Fabrics

	Billings (Thousands of Yards) ²	Orders, Grey Yardage (Thousands of Yards)	Shipments (Cases)	Stocks (Cases)	Activity (Per Cent of Capacity)
1922 monthly average . . .	94,016	95,509	49,102	44,937	66
1923 monthly average . . .	95,098	91,504	48,116	46,166	68
1924 monthly average . . .	77,650	76,105	41,863	43,139	58
1925 monthly average . . .	78,756	76,558	43,691	39,640	60
1926 monthly average . . .	81,399	78,676	47,458	39,673	64
1927 monthly average . . .	84,457	81,710	49,398	38,243	70
1927					
January	75,510	88,603	48,936	36,581	69
February	83,554	91,402	48,968	34,971	82
March	108,067	102,326	59,519	36,178	82
April	91,675	85,323	51,869	38,275	78
May	85,054	77,170	49,711	37,340	72
June	87,006	77,743	48,133	39,535	66
July	72,334	71,959	43,154	40,390	63
August	84,780	82,407	52,399	37,092	68
September	84,899	87,386	52,316	37,053	72
October	85,490	77,296	50,175	39,094	73
November	77,239	69,072	44,671	41,350	61
December	77,885	69,836	43,287	41,059	59
1926					
January	78,170	87,188	46,679	41,111	62
February	82,370	85,055	46,922	41,006	71
March	98,321	97,436	54,452	41,329	74
April	90,938	79,606	49,301	42,350	67
May	79,164	69,348	45,715	41,352	61
June	78,161	65,072	45,272	41,494	55
July	65,714	67,272	43,724	40,446	50
August	69,554	75,180	44,336	38,449	59
September	79,223	84,438	49,312	36,868	66
October	88,295	79,350	51,010	36,161	70
November	79,480	76,483	45,941	37,113	63
December	87,401	77,686	46,827	38,398	66

¹ Figures cover approximately 70 per cent of white goods, 55 per cent of dyed goods, and 25 per cent of printed goods finished outside of mills.

² Goods are billed as completed, hence billings approximate production.

Activity of the American Cotton Industry

Source: United States Bureau of the Census

	Total Spindle Hours (Millions)	Hours per Spindle in Place	Hours per Spindle in Place relative to 1922	Per Cent of Capacity
1923 monthly average	8,288	222	106	98.8
1924 monthly average	6,696	177	85	78.6
1925 monthly average	7,877	208	100	92.7
1926 monthly average	8,083	215	103	95.4
1927 monthly average	8,708	236	113	104.9
1925				
January	8,493	224	107	96.4
February	7,868	208	100	100.0
March	8,599	227	109	99.6
April	8,518	225	108	100.0
May	7,930	210	100	93.6
June	7,690	203	97	89.0
July	7,298	192	92	84.6
August	6,954	184	88	80.5
September	7,102	188	89	83.8
October	7,962	210	100	89.4
November	7,834	207	99	96.0
December	8,272	218	104	99.5
1926				
January	8,359	221	106	98.7
February	8,094	214	103	102.8
March	9,163	242	116	102.1
April	8,348	221	106	98.2
May	7,506	199	95	88.9
June	7,606	202	97	88.4
July	6,770	180	86	78.9
August	7,489	200	96	87.4
September	8,248	220	105	98.5
October	8,370	224	107	98.9
November	8,480	227	109	101.2
December	8,563	229	110	100.3
1927				
January	8,558	229	110	102.3
February	8,266	222	107	106.8
March	9,629	260	125	109.7
April	8,804	238	110	105.8
May	9,002	244	117	109.0
June	9,192	249	120	109.2
July	8,043	219	105	99.1
August	8,973	245	117	103.5
September	8,761	240	115	107.0
October	8,705	238	114	105.3
November	8,680	238	114	107.2
December	7,859	215	103	94.3

Changes in Cost of Living in the United States, 1917 to 1927

Source: United States Bureau of Labor Statistics

PER CENT OF INCREASE FROM 1913 (AVERAGE) TO —														
ITEMS OF EXPENDITURE		Dec., 1917	Dec., 1918	June, 1919	Dec., 1919	June, 1920	Dec., 1920	May, 1921	Sept., 1921	Dec., 1921	June, 1922	Sept., 1922	Dec., 1922	Mar., 1923
Food	.	57.0	87.0	84.0	97.0	119.0	78.0	44.7	53.1	49.9	41.0	39.8	46.6	41.9
Clothing	.	49.1	105.3	114.5	168.7	187.5	158.5	122.6	92.1	84.4	72.3	71.3	71.5	74.4
Housing	.	1	9.2	14.2	25.3	34.9	51.1	59.0	60.0	61.4	60.9	61.1	61.9	62.4
Fuel and light	.	24.1	47.9	45.6	56.8	71.9	94.9	81.6	80.7	81.1	74.2	83.6	86.4	86.2
House-furnishing goods	.	50.6	113.6	125.1	163.5	192.7	185.4	147.7	124.7	118.0	102.9	102.9	108.2	117.6
Miscellaneous	.	40.5	65.8	73.2	90.2	101.4	108.2	108.8	107.8	106.8	101.5	101.1	100.5	100.3
All items	.	42.4	74.4	77.3	99.3	116.5	100.4	80.4	77.3	74.3	66.6	66.3	69.5	68.8

Changes in Cost of Living in the United States, 1917 to 1927 — (Concluded)

Source: United States Bureau of Labor Statistics

ITEMS OF EXPENDITURE	PER CENT OF INCREASE FROM 1913 (AVERAGE) TO —												
	June, 1923	Sept., 1923	Dec., 1923	Mar., 1924	June, 1924	Sept., 1924	Dec., 1924	June, 1925	Dec., 1925	June, 1926	Dec., 1926	June, 1927	Dec., 1927
Food	44.3	49.3	50.3	43.7	42.4	46.8	51.5	55.0	65.5	59.7	61.8	58.5	55.9
Clothing	74.9	76.5	76.3	75.8	74.2	72.3	71.3	70.6	69.4	68.2	66.7	64.9	62.9
Housing	63.4	64.4	66.5	67.0	68.0	68.0	68.2	67.4	67.1	65.4	64.2	62.1	60.2
Fuel and light	80.6	81.3	84.0	82.2	77.3	79.1	80.5	76.7	86.9	80.5	88.3	80.8	83.2
House-furnishing goods	122.2	122.4	122.4	121.3	116.0	114.9	116.0	114.3	114.3	110.4	107.7	105.2	104.6
Miscellaneous	100.3	101.1	101.7	101.1	101.1	101.1	101.7	102.7	103.5	103.3	103.9	104.5	105.1
All items	69.7	72.1	73.2	70.4	69.1	70.6	72.5	73.5	77.9	74.8	75.6	73.4	72.0

Weekly Sales of Print Cloths at Fall River

[In thousands of pieces]

Source: J. M. Prendergast & Co.

		1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
July	31	—	—	—	—	130	80	130
August	7	30	150	100	20	100	50	100
	14	40	150	70	80	60	50	130
	21	60	120	100	130	40	40	80
	28	20	200	200	350	30	40	90
September	4	30	250	300	160	25	40	100
	11	30	100	100	200	25	40	90
	18	130	70	300	190	30	100	80
	25	120	100	250	180	100	120	75
October	2	30	200	250	130	100	100	70
	9	20	100	200	60	60	60	50
	16	10	80	225	50	40	60	50
	23	10	60	250	100	60	40	50
	30	20	150	200	130	75	40	50
November	6	20	110	200	130	300	40	60
	13	10	80	180	300	70	50	50
	20	10	80	160	60	40	50	50
	27	10	70	100	100	40	60	40
December	4	20	100	90	180	30	40	50
	11	15	180	80	85	40	50	50
	18	20	180	150	50	30	40	40
	24	50	230	200	60	75	50	70
	31	50	180	175	50	40	40	75
January	8	100	150	175	50	70	40	80
	15	400	70	175	40	60	75	150
	22	250	75	300	50	70	90	175
	29	100	100	240	50	80	100	120
February	5	90	100	120	50	80	100	100
	12	120	120	120	80	80	70	75
	19	110	130	150	40	65	75	70
	26	60	230	225	50	75	60	80
March	5	60	150	250	80	70	50	90
	12	50	100	200	40	60	50	100
	19	60	70	150	70	40	60	80
	26	200	120	120	60	30	40	75
April	2	70	100	80	50	30	40	70
	9	60	90	70	120	25	40	75
	16	75	110	40	200	40	40	60
	23	90	300	40	50	30	30	70
	30	110	150	40	30	30	50	75
May	7	140	250	60	40	30	50	100
	14	180	225	40	40	30	75	100
	21	170	175	30	25	40	80	75
	28	80	150	30	25	30	75	100
June	4	100	100	50	50	30	75	90
	11	120	200	40	50	60	60	80
	18	70	200	100	70	75	50	75
	25	40	240	75	30	80	60	90
July	2	60	150	70	25	100	60	75
	9	80	120	50	25	100	75	60
	16	100	120	40	30	80	100	60
	23	120	200	25	60	75	110	70
	30	120	100	20	150	75	90	60

Wage Rates paid by Cotton Mills of Lancashire, England, since 1853

The table below gives the wage rates paid under the standard lists of Lancashire, in terms of percentage of the basic list prices. Basic list prices are indicated by 100; rates 5 per cent above list are expressed by 105; rates 5 per cent below list are expressed by 95, etc.

END OF YEAR —	COTTON SPINNING		Cotton Weaving Blackburn ¹ and Uniform Lists
	Bolton List	Oldham List	
1853	No list	No list	Blackburn list adopted +10
1854-57	No list	No list	100
1858	List adopted	No list	100
1859	100	No list	100
1860	105	No list	105
1861-65	100	No list	100
1866	105	No list	100
1867	100	No list	List revised
1868	100	No list	100
1869	95	No list	95
1870	95	No list	100
1871	100	No list	100
1872-73	105	No list	100
1874	100	No list	100
1875	105	No list	100
1876	105	List adopted	100
1877	100	95	100
1878	100	85	90
1879	90	80	85
1880	95	85	85
1881-82	95	90	90
1883	95	90	85
1884	95	90	90
1885-87	90	85	90
1888-89	95	90	90
1890	100	90	90
1891	100	95	90
1892	100	95	Uniform list adopted -10
1893-98	100	92.09	90
1899	100	95	92.5
1900-04	105	100	92.5
1905	105	100	97.5
1906	105	105	100
1907-08	110	110	100
1909-11	105	105	100
1912-14	105	105	105
1915	110	110	105
1916	115	115	110
1917	140	140	140
1918	215	215	215
1919	245	245	245
1920	315 ²	315 ²	315 ³
1921	245	245	245
1922-27	195	195	195

¹ Blackburn list succeeded by Uniform list in 1892.

² Strippers and grinders, blowing-room operatives, and leading men in cotton rooms received in 1920 an additional 10 per cent on wages realized after the addition of the 70 per cent of the list.

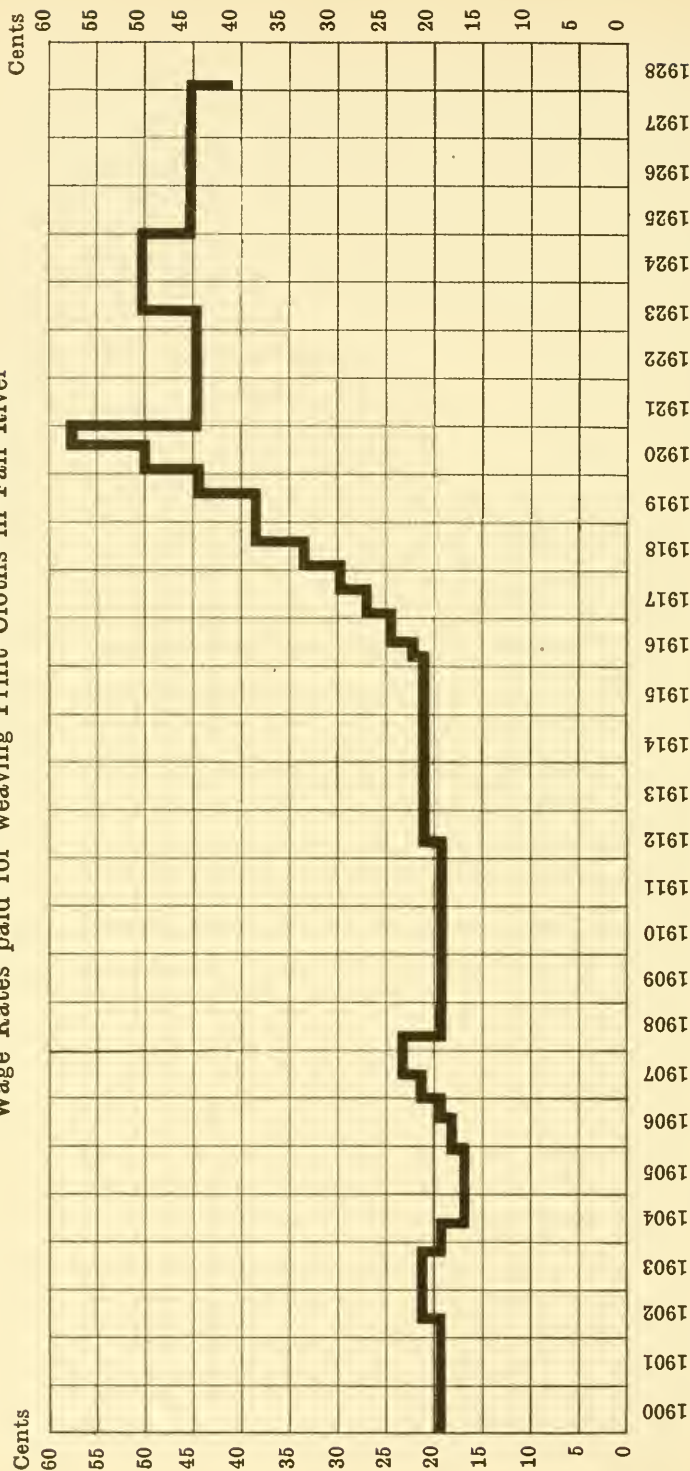
³ Tapers, dry tapers, warp dressers, and loom overlookers received an advance in 1920 of only 55 per cent of list, instead of the 70 per cent which other operatives received. In 1921 these operatives were reduced only 55 per cent instead of the 70 per cent by which other workers were cut down.

General Wage Changes in New Bedford since 1870

PERIOD	Advance or Reduction from Previous Rate (Per Cent)	Percentage of January, 1870, Rate	Percentage of Pre-war Rate
January, 1870, to March, 1870	—	100.00	—
March, 1870, to December, 1873	+10	110.00	—
December, 1873, to December, 1875	—10	99.00	—
December, 1875, to August, 1878	—10	89.10	—
August, 1878, to January, 1880	—10	80.19	—
January, 1880, to April, 1880	+10	88.20	—
April, 1880, to April, 1884	+10	97.02	—
April, 1884, to April, 1885	—10	87.31	—
April, 1885, to April, 1886	—10	78.57	—
April, 1886, to April, 1888	+10	86.42	—
April, 1888, to August, 1892	+5	90.74	—
August, 1892, to December, 1892	+3	93.46	—
December, 1892, to September, 1893	+7	100.00	—
September, 1893, to August, 1894	—10@15	87.50	—
August, 1894, to April, 1895	—5	83.12	—
April, 1895, to January, 1898	+5	87.27	—
January, 1898, to April, 1899	—10	78.54	—
April, 1899, to December, 1899	+10	86.39	—
December, 1899, to April, 1902	+10	95.02	—
April, 1902, to December, 1903	+10	104.52	—
December, 1903, to July, 1906	—10 ¹	95.02	—
July, 1906, to December, 1906	+5	99.77	—
December, 1906, to May, 1907	+7½	107.25	—
May, 1907, to April, 1908	+10	117.97	—
April, 1908, to March, 1912	—10	106.17	—
March, 1912, to January, 1916	+10	116.78	100.00
January, 1916, to April, 1916	+5	122.61	105.00
April, 1916, to November, 1916	+10	134.87	115.50
November, 1916, to June, 1917	+10	148.35	127.05
June, 1917, to November, 1917	+10	163.18	139.76
November, 1917, to June, 1918	+10	179.49	153.74
June, 1918, to June, 1919	+17½	210.90	180.64
June, 1919, to December, 1919	+15	242.53	207.74
December, 1919, to June, 1920	+12½	272.84	233.71
June, 1920, to January, 1921	+15	313.76	268.77
January, 1921, to April, 1923	—22½	243.16	208.30
April, 1923, to January, 1925	+12½	273.56	234.34
January, 1925, to April, 1928	—10	246.21	210.91
April, 1928, to —	—10	221.59	189.82

¹ Approximate reduction of 10 per cent to scale of December, 1899.

Wage Rates paid for weaving Print Cloths in Fall River



The above chart, based on the table at the top of the following page, shows the fluctuations in the amount paid by Fall River print cloth manufacturers to their weavers for weaving $47\frac{1}{2}$ yards of 28", 64 x 64, 7-yard print cloths. Wage rates of other classes of operatives, per hour or per piece, fluctuated in about the same ratio as those of weavers during the period covered. Accordingly this chart may be taken as indicating the general changes in the hourly or piece wage rates of Fall River mill-workers.

Wage Rates paid for weaving Print Cloths in Fall River

Prices paid for weaving 47½ yards of 28-inch, 64 x 64, 7-yard print cloth

PERIOD	Wage Rate	Advance or Reductions from Previous Rate (Per Cent)	Percentage of 1900 Rate	Percentage of Pre-war Rate
December, 1899, to March, 1902 .	\$0.1980	+10	100	—
March, 1902, to November, 1903 .	2178	+10	110	—
November, 1903, to July, 1904 .	1980	-9 ¹ / ₁₀	100	—
July, 1904, to October, 1905 .	1732	-12 ¹ / ₂	87 ¹ / ₂	—
October, 1905, to July, 1906 .	1861	+7 ¹ / ₂	94	—
July, 1906, to November, 1906 .	1980	+6 ⁴ / ₁₀	100	—
November, 1906, to May, 1907 .	2178	+10	110	—
May, 1907, to May, 1908 .	2396	+10	121	—
May, 1908, to March, 1912 .	1966	-17 ⁹ / ₁₀	99	—
March, 1912, to January, 1916 .	2163	+10	109	100.00
January, 1916, to May, 1916 .	2271	+5	115	105.00
May, 1916, to December, 1916 .	2498	+10	126	115.50
December, 1916, to June, 1917 .	2748	+10	139	127.05
June, 1917, to December, 1917 .	3023	+10	154	139.76
December, 1917, to June, 1918 .	3401	+12 ¹ / ₂	172	157.23
June, 1918, to June, 1919 .	3911	+15	198	180.81
June, 1919, to December, 1919 .	4498	+15	227	207.93
December, 1919, to June, 1920 .	5060	+12 ¹ / ₂	256	233.92
June, 1920, to January, 1921 .	5819	+15	293	269.01
January, 1921, to April, 1923 .	4510	-22 ¹ / ₂	228	208.48
April, 1923, to January, 1925 .	5074	+12 ¹ / ₂	257	234.54
January, 1925, to February, 1928	4567	-10	231	211.09
February, 1928, to — .	4108	-10	208	189.99

Average Cash Dividends of New Bedford and Fall River Mills

Source: Sanford & Kelly of New Bedford and G. M. Haffards & Co. of Fall River

YEAR	New Bedford	Fall River
1912	4.40 per cent on \$37,126,300 capital	4.25 per cent on \$27,561,700 capital
1913	5.63 per cent on \$38,925,000 capital	6.87 per cent on \$30,179,100 capital
1914	4.76 per cent on \$39,225,000 capital	4.03 per cent on \$30,349,700 capital
1915	7.83 per cent on \$39,725,000 capital	3.77 per cent on \$30,349,700 capital
1916	7.33 per cent on \$40,675,000 capital	8.01 per cent on \$30,486,700 capital
1917	16.47 per cent on \$49,012,300 capital	13.08 per cent on \$33,111,700 capital
1918	12.66 per cent on \$50,656,300 capital	18.02 per cent on \$34,111,700 capital
1919	13.30 per cent on \$50,572,500 capital	14.46 per cent on \$34,111,700 capital
1920	26.17 per cent on \$50,966,500 capital	32.77 per cent on \$33,860,000 capital
1921	9.19 per cent on \$59,374,000 capital	8.01 per cent on \$38,610,000 capital
1922	9.72 per cent on \$61,735,200 capital	9.60 per cent on \$37,210,000 capital
1923	6.96 per cent on \$72,251,900 capital	7.81 per cent on \$44,666,700 capital
1924	5.13 per cent on \$73,251,900 capital	6.45 per cent on \$43,665,000 capital
1925	5.30 per cent on \$74,028,900 capital	5.03 per cent on \$43,585,000 capital
1926	4.00 per cent on \$72,698,700 capital	3.48 per cent on \$43,585,000 capital
1927	3.50 per cent on \$72,461,900 capital	3.51 per cent on \$41,660,000 capital

Gross Manufacturing Margins on Staple Yarns and Cloths in the United States

[Cents per pound]

Source: Garside Cotton Service

		Average Margin on Four Yarns	Average Margin on Three Print Cloths	Average Margin on Three Sheetings	Average Margin on Two Ducks and Two Drills
August	2, 1924	9.24	17.52	10.86	9.97
September	6, 1924	10.34	18.58	12.69	14.60
October	4, 1924	10.01	18.27	12.02	13.18
November	1, 1924	12.07	18.34	13.60	14.92
December	6, 1924	12.08	20.92	14.09	16.10
January	3, 1925	10.45	20.96	13.03	14.41
February	7, 1925	8.93	20.60	12.66	14.11
March	7, 1925	7.82	19.49	10.83	12.12
April	4, 1925	8.93	19.34	11.65	13.61
May	2, 1925	6.44	18.58	10.51	13.38
June	6, 1925	5.84	16.25	8.09	12.00
July	4, 1925	5.72	16.26	7.49	10.07
August	1, 1925	6.12	17.04	7.64	11.17
September	5, 1925	8.27	20.60	11.45	13.95
October	3, 1925	10.55	22.20	13.62	13.99
November	7, 1925	10.54	21.69	14.45	15.66
December	4, 1925	10.54	21.48	13.87	14.82
January	1, 1926	9.24	19.67	12.46	14.48
February	5, 1926	9.21	19.84	12.27	13.43
March	5, 1926	9.77	20.70	14.78	14.00
April	2, 1926	8.25	17.23	12.89	13.23
May	7, 1926	7.70	16.42	12.29	12.62
June	4, 1926	6.58	15.19	11.32	11.13
July	2, 1926	5.64	13.26	10.61	10.94
August	6, 1926	7.36	16.72	12.46	11.13
September	3, 1926	8.74	17.60	13.52	11.31
October	1, 1926	11.22	20.08	16.70	15.28
November	5, 1926	10.70	19.37	15.39	15.24
December	3, 1926	10.42	19.55	13.74	14.27
January	7, 1927	8.49	18.88	12.51	13.00
February	4, 1927	8.74	18.74	12.75	12.37
March	4, 1927	7.91	18.13	12.46	11.94
April	1, 1927	8.06	18.19	12.43	12.00
May	6, 1927	6.28	16.97	10.67	10.48
June	3, 1927	6.93	17.21	10.53	10.67
July	1, 1927	7.22	17.96	11.09	10.75
August	5, 1927	8.98	18.68	12.72	10.98
September	2, 1927	7.22	18.23	12.45	10.43
October	7, 1927	8.98	19.10	13.70	12.73
November	4, 1927	8.26	18.35	12.73	11.63
December	2, 1927	8.14	16.91	11.94	11.46
January	6, 1928	8.25	17.93	11.66	10.48

These weekly average margins show the spread between the price of cotton after making an allowance for waste and the price of yarns and cloths.

United States Exports of Cotton Machinery, 1927

Source: United States Department of Commerce

COUNTRY OF DESTINATION	Looms	Spinning and Twisting Machinery	Knitting Machinery	Other Cotton Machinery
Belgium	—	\$3,835	\$35,748	—
France	\$17,968	8,060	192,444	\$17,549
Germany	20,041	191,555	76,066	9,938
Italy	47,840	5,917	113,140	17,122
Netherlands	2,050	—	3,923	—
Poland and Danzig	8,892	46,776	7,710	110
Spain	33,102	1,610	55,573	1,986
United Kingdom	11,046	72,249	2,338,349	6,413
Canada	314,790	89,843	835,943	307,526
Mexico	18,964	25,127	248,065	86,714
Argentina	—	875	452,379	7,687
Brazil	—	1,190	193,524	2,496
Chile	—	301	84,822	864
Colombia	151	925	14,792	14,297
British India	—	9,129	17,853	—
China	173	5,207	35,258	14,706
Hongkong	—	—	23,173	—
Japan	12,677	20,538	45,210	14,084
Australia	—	2,249	285,776	420
Total	\$487,694	\$485,396	\$5,058,748	\$501,912

**Calculated Total World's Cotton Spinning Spindles (000's
1927, on Basis of Returns made to the**

	COUNTRIES	TOTAL ESTIMATED NUMBER OF SPINNING SPINDLES		MULE SPINDLES	
		HALF YEAR ENDING		HALF YEAR ENDING	
		July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927
	Europe:				
1	Great Britain	57,325	57,548	43,816	43,933
2	Germany	10,800	10,900	4,350	4,965
3	France	9,567	9,522	3,523	3,854
4	Russia	6,945	6,946	2,597	2,598
5	Italy	5,086	4,941	803	749
6	Czechoslovakia	3,629	3,590	1,768	1,752
7	Belgium	1,873	1,892	450	455
8	Spain	1,936	1,817	457	624
9	Switzerland	1,518	1,523	741	763
10	Poland	1,372	1,412	442	439
11	Austria	1,025	1,041	412	417
12	Holland	1,002	994	244	243
13	Sweden	602	614	117	123
14	Portugal	503	503	173	173
15	Finland	253	253	57	56
16	Denmark	96	96	6	6
17	Norway	60	61	13	15
18	Total	103,592	103,653	59,969	61,165
	Asia:				
19	India	8,714	8,714	971	971
20	Japan	5,952	5,680	36	35
21	China	3,568	3,433	—	—
22	Total	18,234	17,827	1,007	1,006
	America:				
23	U. S. A.	36,728	37,374	2,588 ¹	2,588 ¹
24	Canada	1,153	1,154	205	206
25	Mexico	838	834	5	5
26	Brazil	2,593	2,551	3	3
27	Total	41,312	41,913	2,801	2,802
28	Sundries	1,459	1,223	150	123
29	Grand totals	164,597	164,616	63,927	65,096

¹ Approximate.

omitted) for the Half Years July 31st, 1927, and January 31st, International Cotton Federation's Statistics

RING SPINDLES		SPINDLES SPINNING EGYPTIAN COTTON		SPINDLES IN COURSE OF ERECTION		
HALF YEAR ENDING		HALF YEAR ENDING		HALF YEAR ENDING		
July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927	
13,509	13,615	18,001	19,352	137	241	1
6,450	5,935	985	1,113	278	107	2
6,044	5,668	2,300	2,300	71	85	3
4,348	4,348	300	300	220	100	4
4,283	4,192	588	610	4	57	5
1,861	1,838	475	460	43	17	6
1,423	1,437	155	30	—	45	7
1,479	1,193	28	155	43	—	8
777	760	859	832	24	24	9
930	973	130	138	64	72	10
613	624	49	45	8	25	11
758	751	—	—	55	25	12
485	491	13	8	10	11	13
330	330	3	10	—	3	14
196	197	9	10	—	1	15
90	90	—	—	—	—	16
47	46	—	—	—	—	17
43,623	42,488	23,895	25,363	957	813	18
7,743	7,743	23	23	15	29	19
5,916	5,645	541	546	150	150	20
3,568	3,433	—	—	1	8	21
17,227	16,821	564	569	166	187	22
34,140 ¹	34,786 ¹	2,000 ¹	2,000 ¹	—	—	23
948	948	48	19	—	39	24
833	829	4	—	—	—	25
2,590	2,548	—	—	21	84	26
38,511	39,111	2,052	2,019	21	123	27
1,309	1,100	134	76	33	—	28
100,670	99,520	26,645	28,027	1,177	1,123	29

¹ Approximate.

World's Cotton Spindles ¹

As compiled by leading authorities

YEARS	United States Bureau of the Census	Shepperson's Cotton Facts	Comtelburo's Cotton Handbook	International Federation of Master Cotton Spinners
1900	105,681,000	—	103,115,000	—
1901	—	107,395,000	102,715,145	—
1902	—	—	111,802,010	—
1903	—	—	112,854,077	—
1904	—	—	114,394,712	—
1905	116,764,438	—	118,254,146	—
1906	120,090,595	—	123,229,202	—
1907	123,332,971	124,320,000	126,594,000	114,096,168
1908	130,054,408	—	129,346,714	128,923,659
1909	133,377,000	—	136,903,457	131,503,062
1910	134,526,000	—	139,608,000	133,384,794
1911	137,792,000	—	141,625,000	137,278,752
1912	140,996,000	—	143,142,000	140,693,103
1913	143,398,000	143,730,000	147,191,000	143,452,659
1914	146,397,000	144,980,000	148,891,000	144,704,012
1915	—	148,226,000	150,737,000	—
1916	—	149,785,000	151,667,000	—
1917	148,500,000	151,200,000	154,310,000	—
1918	150,000,000	149,400,000	—	—
1919	150,000,000	153,505,000	153,799,000	—
1920	154,600,000	151,313,000	156,163,000	154,201,462
1921	153,010,000	147,922,000	157,081,000	152,317,054
1922	157,020,000	157,061,000	158,795,000	154,555,267
1923	157,000,000	156,811,000	162,357,000	156,353,000
1924	159,109,000	157,536,464	163,948,835	158,047,000
1925	161,832,000	158,746,784	166,090,536	161,363,000
1926	164,210,000	161,484,000	171,092,662	163,723,000
1927	164,956,000	161,778,000	173,048,733	164,597,000

¹ For those years for which no statistics are given the authorities here quoted either did not compile estimates or their estimates are not available.

Active Cotton Spindles in the United States, by States

Source: United States Bureau of the Census

	1922	1923	1924	1925	1926	1927
New England States:						
Maine	1,121,527	1,137,651	1,133,732	1,130,728	1,104,054	995,562
New Hampshire	1,376,483	1,384,757	1,238,078	1,245,968	1,227,662	1,179,572
Vermont	144,808	144,808	144,808	144,808	115,702	144,558
Massachusetts	11,235,406	11,222,741	10,589,228	9,766,276	9,488,374	9,231,976
Rhode Island	2,746,721	2,837,903	2,732,520	2,524,842	2,455,046	2,322,420
Connecticut	1,313,860	1,325,856	1,227,670	1,162,820	1,134,834	1,121,372
Total New England States	17,938,805	18,053,716	17,066,036	15,975,442	15,525,672	14,995,460
Other Non-Cotton-growing States:						
New York	963,583	1,000,234	951,640	873,180	830,652	753,172
New Jersey	424,591	440,560	437,854	480,112	405,324	378,444
Pennsylvania	185,550	164,507	169,216	145,788	141,514	114,334
Maryland	112,936	112,024	104,500	92,252	92,724	85,524
Indiana	79,256	80,756	81,480	81,980	81,984	82,788
Illinois	57,432	58,720	58,782	57,896	56,804	58,920
Other	39,420	39,124	35,652	36,554	41,142	47,360
Total Other Non-Cotton-growing States	1,862,768	1,895,925	1,839,124	1,764,762	1,650,144	1,520,542
Cotton-growing States:						
Virginia	628,538	654,785	688,870	694,354	694,642	691,302
North Carolina	5,251,467	5,463,547	5,763,334	5,909,666	5,943,208	6,094,136
South Carolina	5,081,609	5,107,038	5,215,828	5,295,170	5,347,050	5,376,034
Georgia	2,598,070	2,682,730	2,757,480	2,807,756	2,900,994	2,941,222
Alabama	1,281,861	1,294,512	1,356,638	1,421,884	1,441,522	1,487,556
Mississippi	172,612	178,508	177,508	142,212	140,692	154,312
Tennessee	424,560	437,168	459,160	468,564	546,604	580,776
Kentucky	93,184	92,684	91,284	92,762	93,890	83,610
Louisiana	97,128	94,748	94,748	89,564	95,564	100,764
Texas	168,192	175,104	193,100	225,862	226,272	253,068
Other	108,944	129,536	146,228	144,248	144,012	131,128
Total Cotton-growing States	15,906,165	16,310,360	16,944,178	17,292,042	17,574,450	17,893,908
Total United States	35,707,738	36,260,001	35,849,338	35,032,246	34,750,266	34,409,910

Cotton Spindles in Place and Spindle Hours, by Months

Source: United States Bureau of the Census

MONTH AND STATE	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1926-27	1925-26	1924-25	1926-27	1925-26	1924-25
MONTHS						
United States:						
August . . .	37,524,376	37,913,678	37,868,968	7,486,820,532	6,935,296,870	5,434,436,281
September . . .	37,423,770	37,893,264	37,901,344	8,256,617,505	7,106,620,234	6,471,791,548
October . . .	37,425,076	37,894,066	37,906,230	8,366,819,617	7,963,201,278	7,655,209,854
November . . .	37,420,798	37,907,748	37,899,058	8,483,083,401	7,824,865,192	7,143,314,102
December . . .	37,364,730	37,871,936	37,939,772	8,585,488,609	8,261,296,953	7,841,016,264
January . . .	37,462,208	37,841,892	37,925,698	8,554,496,234	8,356,410,777	8,553,990,895
February . . .	37,222,282	37,858,358	37,890,576	8,238,917,292	8,120,989,511	7,892,607,663
March . . .	37,017,908	37,856,574	37,805,122	9,638,035,839	9,168,726,450	8,614,547,421
April . . .	36,913,420	37,711,754	37,808,900	8,788,077,771	8,344,768,781	8,520,044,774
May . . .	36,842,910	37,701,534	37,842,464	8,983,483,237	7,502,511,278	7,931,831,847
June . . .	36,821,934	37,680,268	37,843,208	9,190,619,760	7,606,036,127	7,686,275,664
July . . .	36,695,516	37,586,166	37,928,792	8,032,943,681	6,750,357,310	7,309,549,004
Cotton-growing States:						
August . . .	17,879,194	17,633,312	17,238,176	4,865,440,157	4,276,181,226	3,355,675,020
September . . .	17,877,038	17,659,356	17,292,194	5,332,061,031	4,386,448,950	4,087,220,552
October . . .	17,895,160	17,704,802	17,296,496	5,306,356,541	4,771,823,551	4,858,259,078
November . . .	17,925,248	17,721,354	17,299,084	5,503,532,688	4,884,928,910	4,561,827,959
December . . .	17,897,622	17,747,124	17,358,138	5,430,973,722	5,055,915,069	4,623,100,481
January . . .	18,112,244	17,743,152	17,396,394	5,502,064,885	5,290,802,703	5,260,626,243
February . . .	18,028,970	17,770,718	17,421,466	5,270,018,945	5,076,624,154	4,786,824,859
March . . .	18,063,992	17,834,932	17,429,278	6,098,058,493	5,633,371,248	5,187,082,773
April . . .	18,107,172	17,842,468	17,461,172	5,639,302,724	5,219,404,701	5,129,572,735
May . . .	18,126,814	17,852,144	17,495,584	5,779,113,995	4,678,043,827	4,832,480,926
June . . .	18,143,772	17,864,412	17,520,574	5,854,749,711	4,778,964,829	4,725,126,122
July . . .	18,169,026	17,874,750	17,634,948	5,283,306,856	4,435,605,222	4,504,269,940
New England:						
August . . .	17,880,560	18,327,346	18,563,624	2,358,593,681	2,391,972,175	1,871,881,644
September . . .	17,823,404	18,272,552	18,566,804	2,615,389,640	2,398,740,145	2,108,483,594
October . . .	17,808,700	18,240,142	18,576,944	2,739,998,985	2,831,183,492	2,450,286,519
November . . .	17,780,766	18,237,380	18,573,908	2,657,674,743	2,613,175,387	2,284,041,965
December . . .	17,750,526	18,174,838	18,560,372	2,840,148,221	2,800,407,533	2,866,553,619
January . . .	17,651,446	18,171,722	18,535,054	2,741,866,428	2,716,634,079	2,923,600,675
February . . .	17,494,488	18,164,642	18,498,704	2,665,697,675	2,721,948,581	2,787,257,919
March . . .	17,271,212	18,170,398	18,406,942	3,180,442,956	3,171,486,487	3,069,881,237
April . . .	17,136,142	18,092,890	18,381,336	2,840,690,049	2,775,785,636	2,997,308,450
May . . .	17,047,892	18,072,214	18,384,182	2,901,486,955	2,532,002,300	2,746,459,513
June . . .	17,021,558	18,039,500	18,363,264	3,016,975,576	2,521,842,750	2,617,707,672
July . . .	16,871,358	17,946,160	18,332,654	2,493,244,860	2,066,249,346	2,477,752,061
All other States:						
August . . .	1,764,622	1,953,020	2,067,168	262,786,694	267,143,469	206,879,617
September . . .	1,723,328	1,961,356	2,042,346	309,166,834	321,431,139	276,087,402
October . . .	1,721,216	1,949,122	2,032,790	320,464,091	360,194,235	346,664,257
November . . .	1,714,784	1,949,014	2,026,066	321,876,020	327,160,895	297,444,178
December . . .	1,716,582	1,949,974	2,021,262	314,366,666	374,974,351	351,362,164
January . . .	1,695,518	1,927,018	1,994,250	310,564,921	348,973,995	369,763,977
February . . .	1,698,824	1,922,998	1,970,406	303,200,672	322,416,776	318,524,885
March . . .	1,682,704	1,851,244	1,968,902	359,534,390	363,868,715	357,583,411
April . . .	1,670,106	1,776,396	1,966,392	308,084,998	349,578,444	393,163,589
May . . .	1,668,204	1,777,176	1,962,698	302,882,287	292,465,151	352,891,408
June . . .	1,656,604	1,776,356	1,959,370	318,894,473	305,228,548	343,441,870
July . . .	1,655,132	1,765,256	1,961,190	256,391,965	248,502,742	327,527,003
STATES						
Total . . .	36,695,516	37,586,166	37,928,792	102,605,403,478	93,941,080,761	91,054,615,317
Cotton-growing . . .	18,169,026	17,874,750	17,634,948	65,864,979,698	58,517,714,390	55,912,066,688
New England . . .	16,871,358	17,946,160	18,332,654	33,052,209,769	31,541,427,911	31,201,214,868
All other . . .	1,655,132	1,765,256	1,961,190	3,688,214,011	3,881,938,460	3,941,333,761

United States Cotton Spinning Spindles in Place, by States

Source: United States Bureau of the Census

YEAR	Massachusetts	Rhode Island	New Hampshire	Maine	Connecticut	Vermont	New York	New Jersey	Pennsylvania	Maryland
1890	5,872,852	1,959,294	1,198,643	892,762	939,155	71,591	629,324	374,442	496,551	161,786
1900	7,932,883	1,976,198	1,249,875	848,377	1,064,016	100,028	764,492	431,730	336,509	154,064
1905	8,388,533	2,055,912	1,332,075	904,490	1,034,915	100,382	878,276	438,372	339,924	154,968
1906	8,790,793	2,130,958	1,296,445	912,593	1,174,527	102,264	806,254	417,679	288,143	134,112
1907	9,167,698	2,231,461	1,357,877	1,007,717	1,268,065	130,752	1,011,368	440,354	400,395	151,384
1908	9,446,380	2,388,105	1,320,503	978,188	1,240,296	107,324	928,316	447,029	268,310	151,000
1909	9,688,637	2,399,440	1,313,581	1,005,258	1,253,582	105,184	942,521	460,888	275,654	152,266
1910	9,703,573	2,412,272	1,440,173	1,037,176	1,282,232	105,184	970,445	463,403	297,799	153,010
1911	10,613,290	2,526,995	1,462,788	1,066,552	1,270,071	105,276	963,969	483,057	280,202	160,114
1912	11,066,846	2,552,743	1,453,778	1,052,674	1,307,907	136,892	925,576	485,176	265,715	158,168
1913	11,075,684	2,533,380	1,469,137	1,096,986	1,308,650	136,304	956,595	476,731	249,837	162,288
1914	11,046,990	2,574,942	1,466,580	1,117,228	1,330,482	136,304	967,578	477,779	252,685	166,240
1915	10,914,087	2,567,644	1,468,390	1,104,209	1,335,282	136,304	963,748	481,255	259,965	157,380
1916	11,104,810	2,611,553	1,465,013	1,108,790	1,362,186	135,864	913,979	482,831	256,913	151,904
1917	11,280,351	2,653,397	1,459,853	1,099,278	1,372,860	135,864	938,158	491,843	256,314	147,764
1918	11,512,247	2,683,451	1,462,462	1,096,255	1,376,554	135,864	983,893	487,755	262,896	153,531
1919	11,630,397	2,678,180	1,444,074	1,111,940	1,387,517	141,224	980,321	489,647	266,003	145,208
1920	11,758,613	2,675,892	1,443,776	1,127,138	1,392,547	144,808	997,542	417,837	259,715	145,460
1921	11,810,563	2,805,538	1,457,428	1,126,452	1,388,949	144,808	1,017,163	424,145	268,878	142,792
1922	11,922,573	2,820,202	1,448,660	1,146,440	1,364,656	144,808	1,019,528	433,983	236,263	130,024
1923	11,931,334	2,876,708	1,449,700	1,140,928	1,366,668	144,808	1,037,418	447,152	203,305	131,104
1924	11,792,100	2,797,766	1,448,403	1,137,704	1,254,868	144,808	1,024,290	442,424	195,300	131,296
1925	11,597,424	2,787,638	1,445,734	1,118,236	1,238,814	144,808	995,878	513,032	157,780	94,152
1926	11,417,406	2,612,680	1,438,662	1,130,568	1,202,036	144,808	916,126	415,604	142,722	92,724
1927	10,541,966	2,468,790	1,430,238	1,118,316	1,167,240	144,808	872,880	378,444	120,172	92,724

United States Cotton Spinning Spindles in Place, by States — (Concluded)

Source: United States Bureau of the Census

YEAR	Alabama	Georgia	Louisiana	Mississippi	North Carolina	South Carolina	Tennessee	Texas	Virginia
1890	79,234	445,452	46,200	57,004	337,786	332,754	97,524	15,000	94,294
1900	411,328	815,545	55,600	75,122	1,133,432	1,431,349	123,896	48,756	126,827
1905	758,087	1,316,573	59,052	125,352	1,880,950	2,864,092	153,375	68,170	193,062
1906	870,154	1,573,450	95,200	165,188	2,396,703	3,367,204	258,794	101,759	253,206
1907	904,244	1,682,506	88,724	173,064	2,681,386	3,609,909	253,148	109,892	272,710
1908	939,942	1,792,790	89,552	173,216	2,944,404	3,713,006	265,198	106,924	295,579
1909	984,534	1,831,742	89,152	176,640	3,010,367	3,819,149	272,856	106,528	315,676
1910	968,239	1,833,244	87,070	185,280	3,062,061	3,833,901	272,774	108,778	329,174
1911	967,564	1,980,813	86,588	183,662	3,353,706	4,187,317	253,460	113,100	372,816
1912	985,968	2,025,238	86,088	191,092	3,403,996	4,327,178	254,278	114,352	414,148
1913	1,000,080	2,103,018	86,095	192,306	3,593,999	4,536,353	271,634	123,908	426,920
1914	1,058,685	2,160,571	86,095	190,216	3,813,940	4,632,204	296,620	124,628	477,886
1915	1,075,859	2,178,573	79,763	184,636	3,915,842	4,710,826	320,052	124,848	513,434
1916	1,126,846	2,275,929	79,563	166,984	4,053,206	4,743,193	319,148	128,762	516,166
1917	1,136,786	2,422,810	93,408	167,604	4,375,283	4,851,161	350,352	128,112	528,394
1918	1,169,624	2,482,131	96,832	166,932	4,591,026	4,903,840	367,503	132,236	524,194
1919	1,292,294	2,518,059	102,944	155,756	4,789,322	4,955,765	373,695	140,054	580,310
1920	1,215,268	2,542,155	103,128	174,714	4,954,935	4,974,460	399,963	145,054	575,610
1921	1,283,096	2,648,325	103,128	176,778	5,228,266	5,013,538	415,593	166,468	488,982
1922	1,300,699	2,679,379	101,128	172,612	5,292,880	5,090,088	427,832	168,192	633,870
1923	1,330,162	2,693,535	100,748	178,508	5,509,183	5,132,364	438,696	176,444	673,306
1924	1,392,778	2,798,242	100,748	182,508	5,558,762	5,263,258	456,992	207,248	707,314
1925	1,432,378	2,855,166	100,748	185,192	5,982,076	5,321,204	544,424	239,596	711,314
1926	1,470,024	2,911,590	95,564	177,836	6,075,168	5,355,320	567,500	239,828	711,314
1927	1,523,490	2,969,332	100,764	175,644	6,198,606	5,402,540	588,318	268,848	711,378

Spindles in Place and Spindle Hours, by States

Source: United States Bureau of the Census

STATES	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1926-27	1925-26	1924-25	1926-27	1925-26	1924-25
Total	36,695,516	37,586,166	37,928,792	102,605,403,478	93,941,080,761	91,054,615,317
Cotton-growing	18,169,026	17,874,750	17,634,948	65,864,979,698	58,517,714,390	55,912,066,688
New England	16,871,358	17,946,160	18,332,654	33,052,209,769	31,541,427,911	31,201,214,868
All other	1,655,132	1,765,256	1,961,190	3,688,214,011	3,881,938,460	3,941,333,761
Alabama	1,523,490	1,470,024	1,432,378	5,084,877,770	4,785,353,212	4,310,503,544
Connecticut	1,167,240	1,202,036	1,238,814	2,544,306,990	2,441,473,291	2,530,223,753
Georgia	2,969,332	2,911,590	2,855,166	10,269,862,077	9,315,107,275	8,953,643,722
Maine	1,118,316	1,130,568	1,118,236	2,117,175,726	2,139,527,649	2,176,234,432
Massachusetts	10,541,966	11,417,406	11,597,424	20,116,191,565	18,938,121,787	18,666,085,567
New Hampshire	1,430,238	1,438,662	1,445,734	2,744,839,466	2,572,495,341	2,308,269,862
New Jersey	378,444	415,604	513,032	757,072,479	957,155,975	1,080,315,700
New York	872,880	916,126	995,878	1,921,724,016	1,920,849,537	1,907,877,530
North Carolina	6,198,606	6,075,168	5,982,076	23,002,232,377	19,952,947,406	19,606,791,926
Pennsylvania	120,172	142,722	157,780	259,216,091	309,590,029	314,272,931
Rhode Island	2,468,790	2,612,680	2,787,638	5,196,827,151	5,217,301,431	5,254,543,995
South Carolina	5,402,540	5,355,320	5,321,264	21,427,606,880	18,826,171,662	18,007,339,810
Tennessee	588,318	567,500	544,424	1,945,362,447	1,662,560,879	1,365,884,854
Texas	268,848	239,828	239,596	902,495,262	791,595,476	649,519,775
Virginia	711,378	711,314	711,314	1,838,849,548	1,770,597,532	1,674,266,691
All other States	934,958	979,618	988,038	2,476,763,633	2,340,232,279	2,248,841,225

Spindles in Place in Leading Counties, 1927

Source: United States Bureau of the Census

COUNTY	Spindles (Number)	COUNTY	Spindles (Number)	COUNTY	Spindles (Number)
Bristol, Mass.	7,157,574	York, S. C.	267,596	Calhoun, Ala.	167,832
Providence, R. I.	1,643,774	Richmond, N. C.	266,856	Tallapoosa, Ala.	167,208
Gaston, N. C.	1,154,732	Richland, S. C.	253,588	Lancaster, S. C.	163,928
Spartanburg, S. C.	954,524	Greenwood, S. C.	249,256	Floyd, Ga.	162,188
Hillsborough, N. H.	889,444	Hudson, N. J.	242,024	Kennebec, Me.	157,768
Greenville, S. C.	764,380	Pickens, S. C.	231,608	Chester, S. C.	148,648
Middlesex, Mass.	679,444	Albany, N. Y.	229,960	Halifax, N. C.	147,080
Hampden, Mass.	663,088	Cherokee, S. C.	227,300	Cumberland, Me.	138,320
Windham, Conn.	649,304	Laurens, S. C.	224,176	Spalding, Ga.	136,968
Worcester, Mass.	623,668	Bristol, R. I.	223,164	Catawba, N. C.	131,512
Anderson, S. C.	603,284	Rowan, N. C.	217,600	Davidson, N. C.	130,636
Essex, Mass.	575,300	Fulton, Ga.	206,748	Iredell, N. C.	123,564
Berkshire, Mass.	552,700	Rutherford, N. C.	206,736	Upson, Ga.	119,040
Kent, R. I.	482,312	Rockingham, N. C.	202,852	Caldwell, N. C.	118,080
New London, Conn.	477,352	Aiken, S. C.	199,520	Lincoln, N. C.	117,560
Pittsylvania, Va.	467,440	Chambers, Ala.	196,312	McDowell, N. C.	114,464
Cabarrus, N. C.	457,600	Cleveland, N. C.	193,436	Coweta, Ga.	112,712
Muscogee, Ga.	447,932	Newberry, S. C.	193,392	Merrimack, N. H.	112,700
Androscoggin, Me.	423,644	Troup, Ga.	192,600	Robeson, N. C.	110,176
York, Me.	398,584	Richmond, Ga.	189,832	Newton, Ga.	104,568
Oneida, N. Y.	349,016	Alamance, N. C.	188,228	Hall, Ga.	103,156
Union, S. C.	340,260	Knox, Tenn.	187,236	Oconee, S. C.	102,512
Strafford, N. H.	325,000	Hampshire, Mass.	184,800	Vance, N. C.	101,184
Guilford, N. C.	309,876	Stanly, N. C.	181,376	Hamilton, Tenn.	100,136
Mecklenburg, N. C.	309,020	Durham, N. C.	174,928		
Madison, Ala.	277,016	Talladega, Ala.	170,574		

Active Ring and Mule Spindles

Source: United States Bureau of the Census

STATE	NUMBER OF ACTIVE COTTON SPINDLES							
	1927		1919		1909		1899	
	Ring	Mule	Ring	Mule	Ring	Mule	Ring	Mule
United States	32,727,676	1,682,234	31,561,268	3,369,666	23,256,023	4,922,839	13,444,872	5,563,480
Alabama	1,487,556	—	1,170,658	3,640	909,587	3,916	403,328	8,000
Connecticut	798,612	322,760	932,813	402,578	832,830	446,586	607,448	393,126
Georgia	2,914,414	26,808	2,451,101	48,230	1,703,071	71,896	730,619	84,926
Illinois	58,920	—	45,838	11,705	23,240	16,000	15,488	16,000
Indiana	82,788	—	81,256	—	115,152	8,952	86,168	16,320
Kentucky	79,532	4,078	76,968	16,520	68,124	16,920	48,234	18,399
Louisiana	100,764	—	102,944	—	63,096	4,806	55,600	—
Maine	979,802	15,760	1,064,892	42,160	867,364	161,316	584,573	256,948
Maryland	85,524	—	140,940	—	133,302	—	154,064	—
Massachusetts	8,398,112	833,864	9,743,150	1,633,153	7,480,902	2,156,699	5,228,371	2,556,316
Mississippi	154,312	—	143,874	—	159,104	800	75,122	—
New Hampshire	1,169,938	9,634	1,410,947	23,008	1,169,850	156,050	956,390	287,165
New Jersey	238,016	140,428	204,355	276,012	107,381	313,403	64,638	367,092
New York	747,502	5,670	862,981	113,608	547,512	415,329	353,132	367,136
North Carolina	6,079,528	14,608	4,736,288	33,840	2,886,453	71,782	1,098,080	35,352
Pennsylvania	110,574	3,760	155,228	96,605	139,062	139,245	182,190	124,447
Rhode Island	2,042,926	279,494	2,037,036	634,896	1,496,434	875,343	940,294	940,328
South Carolina	5,375,634	400	4,907,745	2,460	3,732,063	28,828	1,420,597	10,752
Tennessee	570,776	10,000	355,138	13,401	237,530	10,000	103,116	20,780
Texas	253,068	—	140,054	—	97,628	—	48,756	—
Vermont	134,358	10,200	131,024	10,200	75,872	15,840	56,712	43,316
Virginia	686,892	4,410	552,440	7,050	316,976	7,572	124,502	2,325
All other States	178,128	360	113,598	600	93,496	1,556	107,450	14,752

Number of Active Ring and Mule Cotton Spindles in the United States, for Selected Years, 1889 to 1927

United States Bureau of the Census

YEAR	Total	Ring	Mule
1927	34,409,910	32,727,676	1,682,234
1926	34,750,266	32,797,096	1,953,170
1925	35,032,246	32,959,642	2,072,604
1924	35,849,338	33,529,602	2,319,736
1923	36,260,001	33,786,015	2,473,986
1922	35,707,738	33,089,667	2,618,071
1921	36,047,367	32,993,331	3,054,036
1920	35,480,953	32,222,325	3,258,628
1919	34,930,934	31,561,268	3,369,666
1918	34,542,665	31,020,749	3,521,916
1917	33,888,835	30,264,074	3,624,761
1916	32,805,883	29,094,263	3,711,620
1915	31,964,235	28,122,792	3,841,443
1914	32,107,572	28,016,390	4,091,182
1913	31,519,766	27,380,573	4,139,193
1912	30,578,528	26,211,979	4,366,549
1909	28,178,862	23,256,023	4,922,839
1904	23,672,064	18,218,800	5,453,264
1899 ¹	19,008,352	13,444,872	5,563,480
1889 ¹	14,188,103	8,824,617	5,363,486

¹ Includes only spindles in establishments classified as cotton goods.

Cotton Mills in Southern States

Source: New Orleans Cotton Exchange

STATES	1921	1922	1923	1924	1925	1926	1927
Virginia	14	14	14	14	14	14	14
North Carolina	420	425	437	444	445	448	447
South Carolina	201	202	206	201	205	207	207
Georgia	161	161	164	167	166	170	173
Alabama	81	83	84	84	85	88	90
Mississippi	18	18	18	18	18	17	17
Tennessee	25	25	28	28	29	29	30
Kentucky	6	6	5	6	6	6	5
Missouri	2	2	2	2	2	2	2
Arkansas	2	2	2	2	3	3	6
Louisiana	5	5	5	5	5	4	5
Texas	21	22	22	25	30	32	33
Oklahoma	1	1	2	2	2	2	2
Total	957	966	989	998	1,010	1,022	1,031

Looms in Southern Cotton Mills

Source: New Orleans Cotton Exchange

STATES	1921	1922	1923	1924	1925	1926	1927
Virginia	17,895	18,487	19,327	19,320	19,328	19,388	19,318
North Carolina	73,233	74,554	81,366	84,615	85,976	86,011	81,343
South Carolina	115,415	116,949	119,248	123,724	126,476	124,898	125,425
Georgia	47,331	47,966	50,019	50,933	51,846	53,479	55,566
Alabama	21,957	23,320	23,792	25,568	26,114	26,694	27,093
Mississippi	4,152	4,190	4,818	4,839	4,776	4,860	4,648
Tennessee	5,990	6,004	6,328	6,274	8,159	8,260	8,061
Kentucky	1,295	1,385	1,376	1,378	1,376	1,376	1,376
Missouri	730	730	730	730	580	580	580
Arkansas	133	150	150	—	—	203	251
Louisiana	2,018	2,018	2,229	2,329	2,329	2,429	2,483
Texas	4,035	4,419	5,745	5,976	6,124	6,517	7,203
Oklahoma	64	64	564	564	468	508	454
Total	294,248	300,236	315,692	326,250	333,552	335,203	333,801

The World's Cotton Mills, 1927

Source: Comtelburo's Cotton Handbook

COUNTRY	Mills	Spindles	Looms	Consumption (Bales)	Hands employed
Great Britain 1927	1,865	60,465,682	767,524	3,144,387	630,000
United States, North 1926	713	19,551,319	420,778	2,464,084	236,000
United States, South 1927	996	17,931,991	324,742	5,471,391	186,000
Canada 1926	51	1,728,336	35,712	273,276	28,500
Germany 1927	372	10,900,000	250,000	2,433,179	120,000
Russia 1926	167	10,827,500	270,712	929,174	459,055
Poland 1927	63	1,362,000	42,561	290,000	69,200
Finland 1927	6	255,600	6,700	41,000	7,900
Esthonia 1927	6	549,124	5,945	18,000	5,000
Latvia 1927	4	92,500	735	6,000	1,100
France 1927	580	9,613,000	182,800	1,237,000	199,000
Hungary 1927	36	132,000	9,800	30,000	9,000
Austria 1927	87	1,051,897	14,942	142,000	19,000
Czecho-slovakia 1927	86	3,600,000	110,000	342,000	120,000
Jugo-Slavia 1926	18	115,000	5,000	79,366	5,644
Switzerland 1927	64	1,525,722	27,057	105,720	27,300
Italy 1927	700	5,000,000	150,000	780,000	250,000
Spain 1927	300	1,900,000	71,000	400,000	125,000
Portugal 1927	52	503,000	22,000	60,000	30,000
Belgium 1927	225	2,132,000	54,000	280,000	37,500
Holland 1927	101	994,268	50,235	144,000	36,500
Sweden 1927	35	614,000	16,000	90,000	14,000
Norway 1927	15	66,150	2,853	7,000	2,735
Denmark 1927	37	95,956	5,891	18,759	3,230
Turkey 1927	1	5,000	—	3,325	—
Bulgaria 1923	8	27,311	560	—	250
Cyprus 1927	1	1,800	—	450	75
Greece 1927	10	190,000	2,000	40,000	8,500
Roumania 1927	2	33,300	5,000	48,500	6,500
Egypt 1927	1	40,000	8,000	15,000	1,200
Asia Minor 1927	6	50,000	3,325	36,750	3,030
India 1926	334	8,714,168	159,464	2,113,384	373,508
China 1927	118	3,588,483	24,047	1,800,000	210,000
Japan 1927	247	5,679,852	77,043	2,195,000	239,914
Indo-China 1925	5	90,000	500	45,000	3,000
Brazil 1927	329	2,528,611	75,631	529,561	124,619
Argentina 1924	7	30,000	1,500	10,000	2,000
Chile 1916	3	5,000	400	—	454
Peru 1927	11	76,796	3,049	12,500	3,100
Colombia 1926	38	52,000	1,980	12,000	5,000
Ecuador 1927	12	38,874	836	12,000	2,542
Venezuela 1927	7	42,700	1,617	26,000	5,000
Guatemala 1925	1	5,000	150	5,984	500
Mexico 1927	161	842,793	31,296	160,000	44,250
Total (estimated)	7,881	173,048,733	3,243,385	25,851,790	3,655,106

Japanese Cotton Industry

Source: Japan Cotton Spinners' Association

YEARS	Number of Companies	Number of Mills	CAPITAL		Reserve Funds (Yen) ¹	NUMBER OF SPINDLES			Twisting Spindles	Looms
			Authorized (Yen) ¹	Paid-up (Yen) ¹		Ring	Mule	Total		
1906 .	47	—	45,403,350	38,433,350	15,386,948	1,395,013	77,240	1,472,253	136,866	9,601
1907 .	42	118	90,036,300	57,531,125	20,966,234	1,492,032	48,420	1,540,452	154,789	9,462
1908 .	36	125	85,511,300	58,397,385	22,189,614	1,743,921	51,958	1,795,879	177,860	11,146
1909 .	31	134	75,871,300	64,501,000	22,784,470	1,903,854	51,038	1,954,892	227,574	13,813
1910 .	36	136	94,271,300	67,516,013	24,658,967	2,044,284	55,480	2,099,764	282,186	17,702
1911 .	34	139	89,160,150	64,347,164	24,788,872	2,117,756	53,040	2,170,796	286,410	20,431
1912 .	41	147	105,136,400	72,366,495	28,538,314	2,125,000	51,748	2,176,748	317,324	21,898
1913 .	44	152	113,036,401	86,444,059	33,803,119	2,365,094	49,405	2,414,499	320,912	24,224
1914 .	42	157	109,676,400	85,820,424	36,639,349	2,606,004	51,170	2,657,174	348,766	25,443
1915 .	41	161	110,176,400	86,011,677	38,663,064	2,754,124	53,390	2,807,514	355,318	30,068
1916 .	40	161	137,290,150	99,641,818	48,952,381	2,825,944	49,960	2,875,904	370,681	31,295
1917 .	43	170	162,830,150	115,623,020	70,037,275	3,008,568	51,910	3,060,478	383,458	36,181
1918 .	43	177	192,877,650	138,494,595	92,426,047	3,175,768	51,910	3,227,678	384,872	40,391
1919 .	54	190	221,927,650	165,758,695	139,073,869	3,435,932	52,330	3,488,262	410,690	44,401
1920 .	56	198	394,327,650	276,535,896	165,697,053	3,761,250	52,330	3,813,680	466,460	50,583
1921 .	61	217	429,577,650	295,648,358	182,040,774	4,116,616	44,510	4,161,126	538,384	54,994
1922 .	64	235	462,107,650	317,148,075	202,774,376	4,472,112	45,500	4,517,612	602,032	60,765
1923 .	60	228	463,977,650	323,787,485	211,298,943	4,183,596	14,370	4,197,966	501,031	61,421
1924 .	56	232	512,362,500	349,820,568	212,871,930	4,845,082	25,150	4,870,232	676,995	64,225
1925 .	54	230	509,212,500	351,804,817	221,777,742	5,151,962	33,670	5,185,632	715,946	68,160
1926 .	53	234	497,087,500	369,195,247	229,326,484	5,376,092	34,660	5,410,752	785,002	71,719
1927 ²	—	—	—	—	—	—	—	—	—	—

¹ Yen = \$0.4985 U. S.² Not available.

Japanese Yarn Production

Source: Japan Cotton Spinners' Association

YEARS	Average Working Spindles	PRODUCTION OF COTTON YARN						DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
		Coarse Yarn (Bales) ¹	Medium Yarn (Bales) ¹	Fine Yarn (Bales) ¹	Doubling (Bales) ¹	Gassed (Bales) ¹	Total (Bales) ¹	Males	Females	Total	Males	Fe- males
											(Rin) ²	(Rin) ²
1906	1,404,714	826,363.0	55,125.0	148.0	43,376.5	20,155.0	945,167.5	14,496	61,278	75,774	365	228
1907	1,458,020	859,214.5	53,762.0	-	47,377.5	23,127.5	983,481.5	15,242	64,377	79,619	393	246
1908	1,367,631	738,659.0	54,171.0	-	59,555.5	26,185.0	878,570.5	15,049	56,154	74,203	410	250
1909	1,569,080	841,778.0	78,975.0	7.0	71,651.0	32,833.5	1,025,244.5	16,844	66,664	83,508	425	267
1910	1,741,168	964,675.0	63,637.5	1,814.5	74,436.5	30,217.0	1,134,780.5	18,266	75,614	93,880	434	272
1911	1,784,064	934,713.0	82,739.5	4,627.5	74,536.0	32,651.0	1,129,267.0	17,628	74,808	92,496	450	288
1912	1,984,191	1,090,172.5	119,893.5	6,722.5	95,683.5	39,737.5	1,352,209.5	18,421	80,779	99,200	467	305
1913	2,167,926	1,212,001.5	142,409.0	8,666.5	109,996.0	44,909.0	1,517,982.0	19,707	88,038	107,745	485	320
1914	2,369,801	1,350,850.5	149,498.0	7,760.5	119,790.0	38,282.0	1,666,181.0	22,163	92,251	114,414	491	319
1915	2,463,376	1,360,259.0	187,761.0	8,096.5	130,536.5	33,611.5	1,720,264.5	22,674	92,500	115,174	495	322
1916	2,757,299	1,458,617.0	259,840.0	10,153.5	155,483.5	41,485.0	1,925,579.0	23,845	97,279	121,124	500	334
1917	2,850,637	1,421,978.0	287,259.5	7,730.5	164,850.0	42,023.0	1,923,841.5	25,518	97,648	123,166	545	371
1918	2,936,495	1,245,723.5	366,868.5	7,427.5	138,286.5	45,560.0	1,803,866.0	26,790	95,069	121,859	686	476
1919	3,179,568	1,285,926.0	422,967.5	9,202.0	156,542.5	46,144.5	1,920,782.5	30,935	101,399	131,839	1,116	870
1920	3,191,753	1,222,525.5	401,868.5	7,477.5	146,562.5	38,542.0	1,816,976.0	33,966	109,782	143,748	1,567	1,196
1921	3,162,353	1,276,600.5	346,148.5	6,199.5	141,136.0	41,265.5	1,811,350.0	34,904	105,704	140,608	1,463	1,134
1922	3,967,265	1,557,052.0	429,484.5	7,167.5	185,761.5	48,780.5	2,228,246.0	41,009	132,442	173,451	1,544	1,243
1923	4,079,855	1,484,705.5	449,274.5	10,175.0	177,472.5	49,525.5	2,171,153.0	38,159	121,811	159,970	1,483	1,180
1924	4,115,692	1,320,986.5	449,037.5	13,479.0	184,539.0	54,751.0	2,072,817.5	36,015	117,307	153,322	1,524	1,206
1925	4,669,753	1,541,615.5	587,005.5	16,145.0	229,079.5	62,938.0	2,436,783.5	39,221	134,383	173,604	1,548	1,224
1926	5,002,932	1,629,698.5	637,499.5	16,164.0	248,847.0	75,537.0	2,607,746.5	40,735	141,787	182,522	-	-
1927 ³	-	-	-	-	-	-	-	-	-	-	-	-

¹ Bales of 400 pounds each.

² Rin = 1/1000 yen = \$0.00049.

³ Not available.

Japanese Cotton Piece-goods Production

Source: Japan Cotton Spinners' Association

YEARS	Average Working Looms	Production of Cotton Piece-goods (Yards)	Yarn Consumed (Pounds)	DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
				Male	Female	Total	Male (Rin) ¹	Female (Rin) ¹
1906	8,491	137,773,415	40,702,848	1,248	7,937	9,185	393	259
1907	9,245	135,253,029	44,262,958	1,525	8,727	10,252	430	277
1908	9,496	147,443,838	47,676,427	1,484	8,683	10,167	448	294
1909	11,585	181,976,972	57,388,586	1,871	11,496	13,367	450	304
1910	14,911	226,313,958	71,197,654	2,486	13,604	16,090	459	305
1911	17,884	289,039,671	82,493,136	2,656	17,133	19,789	471	325
1912	20,208	342,584,684	93,592,721	2,795	18,006	20,801	503	349
1913	23,299	416,725,357	111,159,616	3,298	21,956	25,254	530	363
1914	24,911	454,901,674	123,863,966	3,569	22,459	26,028	555	379
1915	27,687	502,076,621	124,632,631	3,547	22,930	26,477	526	374
1916	30,110	560,181,108	136,413,408	3,737	23,245	26,982	534	407
1917	31,920	594,649,419	142,770,758	4,333	24,434	28,767	533	445
1918	36,395	656,935,420	160,301,569	5,532	29,713	35,245	721	531
1919	40,969	739,390,012	179,788,560	7,635	37,040	44,675	1,133	889
1920	44,635	762,037,360	189,651,320	8,005	39,048	47,053	1,572	1,174
1921	44,109	700,697,985	179,427,501	7,078	32,182	39,260	1,492	1,146
1922	51,033	869,327,652	214,327,505	7,857	38,102	45,959	1,544	1,243
1923	52,972	1,000,708,890	249,279,975	7,962	40,549	48,511	1,483	1,180
1924	56,351	1,030,905,658	241,319,095	8,179	43,056	51,235	1,525	1,174
1925	62,976	1,179,524,733	274,472,668	8,703	47,023	55,726	1,574	1,222
1926	65,699	1,277,726,954	294,334,545	9,216	48,177	57,392	-	-
1927 ²	-	-	-	-	-	-	-	-

¹ Rin = 1/1000 yen = \$0.00049.² Not available.

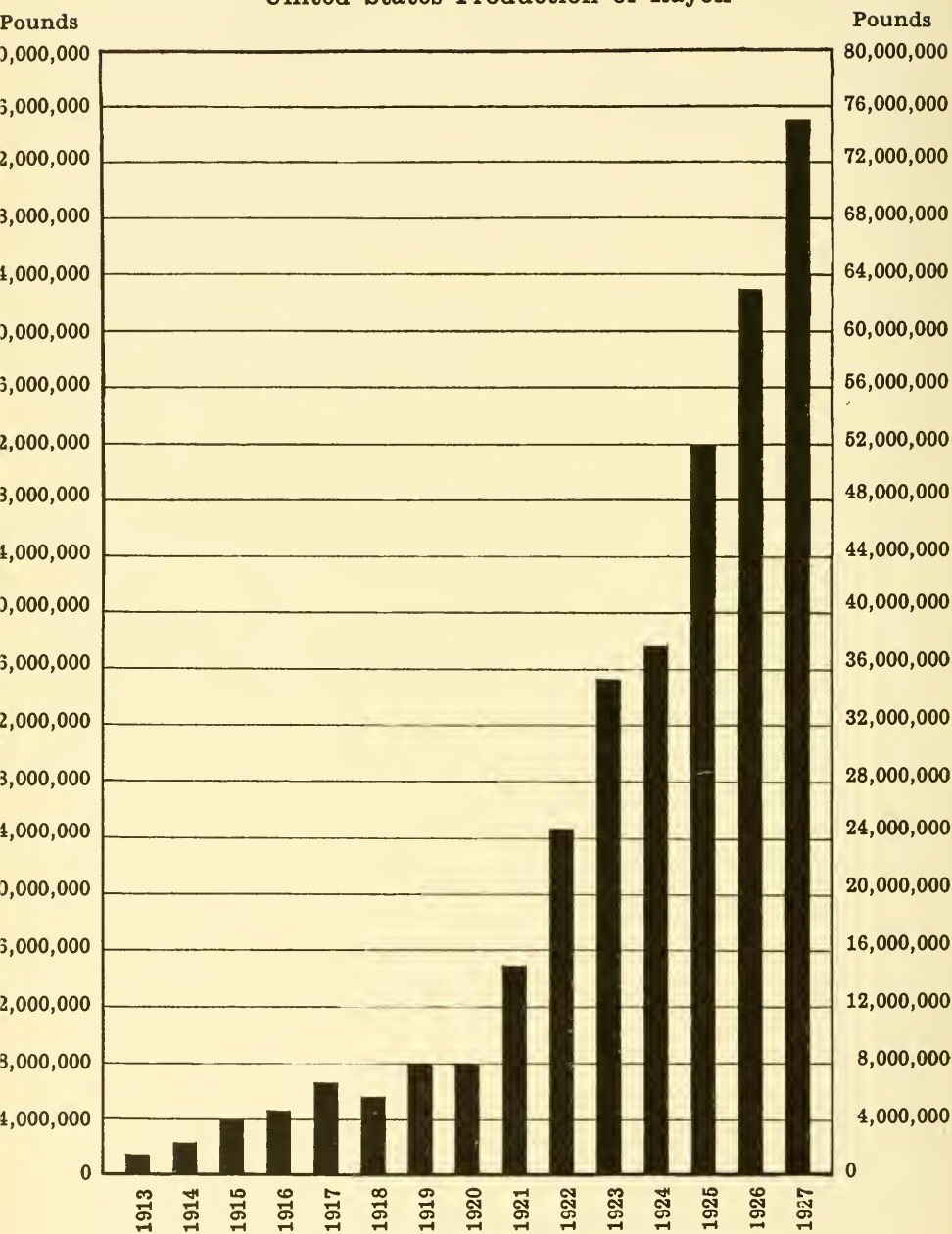
Indian Yarn Production

[In pounds]

Source: Department of Statistics, India

FISCAL YEARS ENDING MARCH 31	Counts 1-12	Counts 13-15	Counts 16-20	Counts 21-22	Counts 23-32	Counts over 32	Total All Counts
1910-11	207,509,950	44,618,417	70,603,683	193,755,597	78,880,416	14,164,373	609,532,436
1911-12	190,645,627	47,423,898	73,994,852	208,646,131	87,077,316	16,535,131	624,322,955
1912-13	239,721,030	51,639,093	76,859,501	207,838,060	94,751,753	16,901,358	687,760,795
1913-14	233,643,390	49,224,504	78,274,111	211,360,899	95,612,210	14,019,139	682,134,253
1914-15	220,194,466	54,167,997	76,490,272	198,116,252	89,770,944	12,769,510	651,509,441
1915-16	260,337,274	56,961,454	84,882,554	213,351,059	93,935,172	12,305,584	721,773,097
1916-17	219,750,231	57,248,165	85,604,890	200,028,983	100,319,084	17,808,941	680,760,249
1917-18	193,374,553	63,972,185	78,953,407	192,777,637	112,178,003	19,096,551	660,352,336
1918-19	161,285,869	62,346,415	76,268,029	184,250,594	116,623,790	14,034,609	614,809,306
1919-20	174,732,119	55,549,634	82,021,768	205,939,704	104,239,184	12,972,539	635,484,948
1920-21	175,376,300	63,323,383	84,695,402	213,209,760	114,152,207	8,890,653	639,647,705
1921-22	197,376,737	68,290,013	82,730,668	210,635,692	124,443,961	9,493,469	692,970,540
1922-23	191,167,444	70,430,162	83,620,475	227,658,639	123,667,661	9,090,148	705,634,529
1923-24	143,895,315	71,194,892	77,669,761	187,239,780	115,601,798	12,512,473	608,114,019
1924-25	165,030,312	78,205,247	226,574,692	94,823,239	138,667,812	16,088,692	719,389,994
1925-26	160,274,343	75,517,152	208,956,741	89,998,843	134,085,071	16,793,788	685,625,938
1926-27	190,259,504	82,554,545	242,836,791	103,644,305	157,508,417	30,282,556	807,116,118

United States Production of Rayon



United States Production and Imports of Rayon

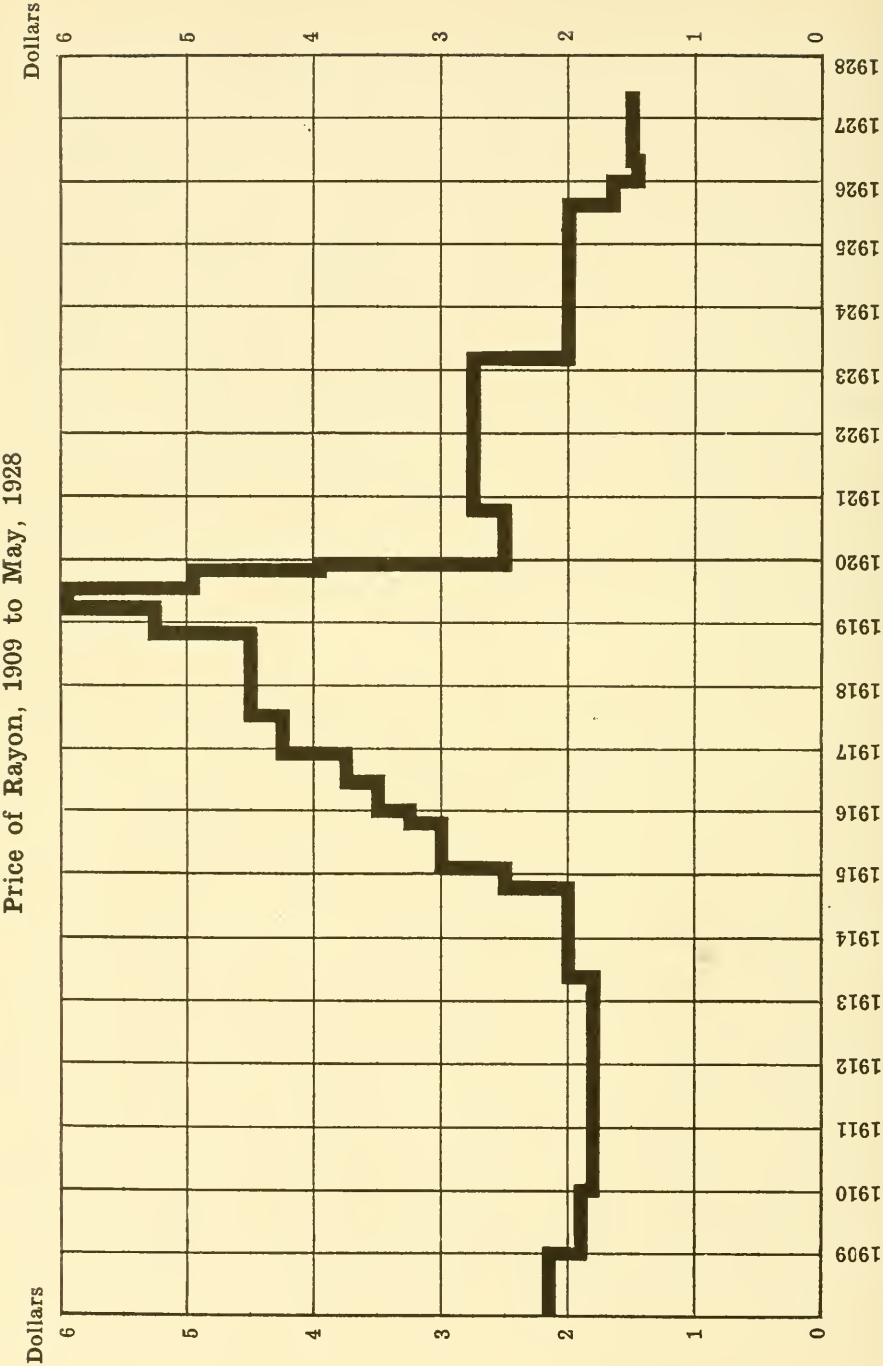
Source: Silk Association of America

YEAR	Production (Pounds)	Imports (Pounds)	Import Valuation (Per Pound)
1913	1,566,000	2,305,000	—
1914	2,445,000	2,923,000	\$1.25
1915	4,111,000	2,718,000	1.21
1916	4,744,000	864,000	1.95
1917	6,687,000	552,000	2.55
1918	5,828,000	93,099	2.69
1919	8,000,000	1,148,513	4.06
1920	8,000,000	1,846,875	3.44
1921	15,000,000	3,667,180	1.66
1922	24,406,400	2,087,775	1.87
1923	35,380,500	3,906,037	1.73
1924	37,719,600	1,711,987	1.34
1925	52,000,000	7,000,521	1.16
1926	62,816,910	10,221,396	.88
1927	75,000,000	16,211,166	.84

Use of Rayon by Industries

Source: The Viscose Company

	1927 (Per Cent)	1926 (Per Cent)	1925 (Per Cent)	1924 (Per Cent)	1923 (Per Cent)
Cotton	24	22½	26	15	11
Hosiery	21	22¼	28	23	22
Silk goods	14	12	16	18	15
Knitted outerwear	4	15¼	5	14	25
Braid	2	9¾	4	8	10
Tapestry	—	3	4	3	—
Upholstery goods	—	—	—	—	2
Underwear	28	12	13	11	5
Lace	—	½	1	11	5
Webbing	—	1	1	—	—
Plush	—	—	1	2	2
Woolen goods	1	1	1	1	1
Miscellaneous	6	—	—	5	7



List Prices of Rayon Yarn

[Quotations are for 150 denier, A quality, bleached]

Source: The Viscose Company

1909	\$2.15
1910	1.90
1911	1.80
1912	1.80
1913	1.80
April 1, 1914, to September, 1915	2.00
September, 1915, to January, 1916	2.50
January, 1916, to September, 1916	3.00
September, 1916, to December, 1916	3.25
December, 1916, to May, 1917	3.50
May, 1917, to October, 1917	3.75
October, 1917, to June, 1918	4.25
June, 1918, to September, 1919	4.50
September, 1919, to February, 1920	5.25
February, 1920, to June, 1920	5.95
June, 1920, to September, 1920	4.95
September, 1920, to October, 1920	3.95
October, 1920, to September, 1921	2.50
September, 1921, to February, 1924	2.75
February, 1924, to July, 1926	2.00
July, 1926, to November, 1926	1.65
November, 1926, to March, 1927	1.45
March, 1927, to ———	1.50

World Rayon Production by Countries

Source: United States Department of Commerce and "Textile World"

COUNTRY	1923 (Pounds)	1924 (Pounds)	1925 ¹ (Pounds)	1926 ¹ (Pounds)	1927 ¹ (Pounds)
United States . . .	35,400,000	38,750,000	54,700,000	62,575,000	72,000,000
Italy	10,000,000	18,480,000	30,000,000	35,000,000	37,000,000
England	16,500,000	23,947,000	28,000,000	25,500,000	36,000,000
Germany	13,000,000	23,672,000	27,100,000	26,000,000	35,500,000
France	7,700,000	12,333,200	14,400,000	17,500,000	19,800,000
Belgium	6,000,000	8,874,800	11,100,000	13,100,000	16,500,000
Switzerland	3,700,000	4,004,000	5,500,000	8,000,000	9,000,000
Holland	2,600,000	3,336,000	4,400,000	13,500,000	16,500,000
Austria	—	2,640,000	3,500,000	3,500,000	3,500,000
Poland	—	1,540,000	2,200,000	2,000,000	2,750,000
Czecho-Slovakia . .	—	1,293,600	2,000,000	2,800,000	3,500,000
Japan	—	1,199,000	1,400,000	5,500,000	9,000,000
Hungary	—	616,000	700,000	600,000	—
Spain	—	184,800	220,000	300,000	300,000
Sweden	—	176,000	176,000	275,000	—
Russia	—	88,000	88,000	360,000	—
Other countries . .	2,100,000	—	—	—	—
Total	97,000,000	141,414,000	185,484,000	219,080,000	265,900,000

¹ Estimated.

Growth of the Cotton Manufacturing Industry of the United States

	1899	1904	1909	1914	1919	1921	1923	1925
Invested capital	\$467,240,157	\$613,110,655	\$822,237,529	\$899,764,682	\$1,914,919,506	Not collected	Not collected	Not collected
Number of active producing spindles	19,050,952	23,155,613	27,395,800	30,815,731	33,718,953	36,047,367 ¹	36,260,001 ¹	35,032,246
Number of concerns	1,055	1,154	1,324	1,328	1,496	1,527	1,642	1,638
Number of employees	302,861	315,874	378,880	393,404	446,852	425,817	493,197	468,352
Value of product calendar year	\$339,200,320	\$450,467,704	\$628,391,813	\$701,300,933	\$2,195,565,881	\$1,330,263,117	\$2,010,141,147	\$1,819,886,390
Consumption of raw cotton and linters (in 500-pound bales); (Cotton year)	3,687,253	4,523,208	4,759,364	6,087,338	6,807,817	5,408,979	7,312,201	6,852,265
Value of total exports of cotton manu- factures. ²	\$23,566,914	\$22,403,713	\$31,878,566	\$51,467,233	\$273,115,704	\$117,234,542	\$138,045,354	\$148,239,365
Value of total imports of cotton manu- factures. ²	32,054,434	49,524,246	63,231,968	70,704,828	52,652,110	75,430,495	100,153,179	79,271,008

¹ Total active cotton-producing spindles whether in cotton manufacturing industry or not.² Fiscal years ended June 30 up to and including 1914; calendar years thereafter.

Summary of the Cotton Manufactures Industry for New England, Census of Manufactures, 1925

Source: United States Bureau of the Census, Department of Commerce

	Maine	New Hampshire	Vermont	Massachusetts ¹	Rhode Island	Connecticut	Total
Number of establishments	16	23	4	230	150	58	481
Persons engaged	12,059	15,534	904	101,691	35,828	15,587	181,603
Proprietors and firm members	—	12	—	28	22	—	62
Salariéd employees	208	535	24	2,724	1,386	814	5,691
Wage earners (average number) . . .	11,851	14,987	880	98,939	34,420	14,773	175,850
Salaries and wages	\$11,283,764	\$15,436,365	\$954,356	\$102,761,556	\$38,764,895	\$17,300,647	\$186,501,583
Salaries	766,037	1,571,136	73,155	8,367,465	4,078,699	2,111,089	16,967,581
Wages	10,517,727	13,865,229	881,201	94,394,091	34,686,196	15,189,558	294,321,002
Paid for contract work	934,029	113,563	—	1,099,986	1,366,508	270,590	3,784,676
Cost of materials	24,306,540	36,607,839	1,957,415	207,924,815	72,487,104	39,584,896	382,868,609
Value of product	41,188,496	58,908,960	3,195,418	358,238,885	128,526,645	65,740,674	655,799,078
Value added by manufacture ² . . .	16,881,956	22,301,121	1,238,003	150,314,070	56,039,541	26,155,778	267,939,469

¹ Excludes statistics for one establishment to avoid disclosure of its operations.

² Value of products less cost of materials.

Size of Cotton Manufacturing Establishments

[Based on Statistics of United States Bureau of the Census]

	Establish- ments	Wage Earners	Wage Earners per Estab- lishment	Active Spindles (000 omitted)	Active Spindles per Estab- lishment	Looms	Looms per Estab- lishment
1879 .	756	172,544	228	10,653	14,091	225,759	298
1889 .	905	218,876	242	14,188	15,677	324,866	358
1899 .	1,055	302,861	287	19,051	18,058	450,682	427
1904 .	1,154	315,874	274	23,195	20,100	540,910	468
1909 .	1,324	378,880	286	27,426	20,715	632,963	477
1914 .	1,328	393,404	296	30,915	23,279	672,754	506
1919 .	1,496	446,852	299	33,796	22,591	692,169	462
1921 .	1,527	425,817	278	33,071	21,658	— ¹	— ¹
1923 .	1,643	497,378	302	36,260	22,069	— ¹	— ¹
1925 .	1,638	468,352	285	35,023	21,381	— ¹	— ¹

¹ Not available.

Legal Working Hours for Women

Source: United States Department of Labor

STATE	Daily	Weekly
Alabama	No limitation	No limitation
Arizona	8	48
Arkansas	9	54
California	8	48
Colorado	8	56
Connecticut	10	55
Delaware	10	55
District of Columbia	8	48
Florida	No limitation	No limitation
Georgia	10	60
Idaho	9	63
Illinois	10	70
Indiana	No limitation	No limitation
Iowa	No limitation	No limitation
Kansas	9	49½
Kentucky	10	60
Louisiana	10	60
Maine	9	54
Maryland	10	60
Massachusetts	9	48
Michigan	9	54
Minnesota	9	54
Mississippi	10	55
Missouri	9	54
Montana	8	56
Nebraska	9	54
Nevada	8	56
New Hampshire	10½	54
New Jersey	10	54
New Mexico	8	56
New York ¹	8	48
North Carolina	11	60
North Dakota	8½	48
Ohio	9	50
Oklahoma	9	54
Oregon	9	48
Pennsylvania	10	54
Rhode Island	10	54
South Carolina	10	55
South Dakota	10	54
Tennessee	10½	57
Texas	9	54
Utah	8	48
Vermont	10½	56
Virginia	10	60
Washington	8	56
West Virginia	No limitation	No limitation
Wisconsin	9	50
Wyoming	8½	56

NOTE.—The above table applies to women employed in mechanical and manufacturing establishments. Many states provide for overtime in seasonal industries.

¹ Certain exceptions on hours of labor.

Approximate Value of Foreign Money

Source: The Merchants National Bank of Boston

COUNTRY	Monetary Unit and Fractions	Approximate Par Value of Foreign Unit in United States Dollars	Approximate Value of United States Dollar in Foreign Unit at Par
Argentina ¹	{ 1 Gold peso = 100 Centavos	\$0.9648	1.0362 Gold pesos
	{ 1 Paper peso = 100 Centavos	.4245	2.3557 Paper pesos
Austria	1 Schilling = 100 Groschen	.1407	7.1073 Schillings
Belgium	1 Belga = 100 Centimes	.1390	7.1919 Belgas
Bolivia	1 Boliviano = 100 Centavos	.3893	2.5656 Bolivianos
Brazil ²	{ 1 Gold milreis = 1,000 Reis	.5462	1.8308 Gold milreis
	{ 1 Paper milreis = 1,000 Reis	.3244	3.0823 Paper milreis
Bulgaria	1 Lev = 100 Stotinki	.1930	5.1813 Leva
Chile ³	1 Peso = 100 Centavos	.1217	8.2169 Pesos
China ⁴	-	-	-
Colombia	1 Peso = 100 Centavos	.9733	1.0274 Pesos
Czecho-Slovakia	1 Krone = 100 Hellers	.2026	4.9351 Kronen
Denmark	1 Krone = 100 Ore	.2680	3.7313 Kroner
Ecuador	1 Sucre = 100 Centavos	.4867	2.0548 Sucres
Egypt ⁵	1 Egyptian pound = 100 Piastres	4.9431	2023 Egyptian pounds
Finland	1 Markka = 100 Pennia	.0252	39.7056 Markka
France	1 Franc = 100 Centimes	.1930	5.1813 Francs
Germany	1 Reichsmark = 100 Pfennige	.2382	4.1979 Reichsmarks
Greece	1 Drachma = 100 Lepta	.1930	5.1813 Drachmas
Great Britain	{ 1 Pound sterling = 20 Shillings	4.8665	0-4-1 Pounds sterling
	{ 1 Shilling = 12 Pence	.2433	4.1101 Shillings
Holland	1 Guilder or florin = 100 Cents	.4020	2.4878 Guilders
Honduras	1 Peso = 100 Centavos	.4340	2.3041 Pesos
Hungary	1 Pengo = 100 Garas	.1749	5.7175 Pengos
India	{ 1 Rupee = 16 Annas	.4867	2.0530 Rupees
	{ 1 Anna = 12 Pies	-	-
Italy	1 Paper lira = 100 Centesimi	.0526	.1930 Paper lire
Japan	1 Yen = 100 Sen	.4985	2.0062 Yen
Jugo-Slavia	1 Dinar = 100 Paras	.1930	5.1813 Dinars
Mexico	1 Peso = 100 Centavos	.4985	2.0062 Pesos
Norway	1 Krone = 100 Ore	.2680	3.7313 Kroner
Paraguay ⁶	1 Peso = 100 Centavos	.9648	1.0365 Pesos
Persia ⁷	1 Kran = 20 Shabis	.0844	11.8483 Krans
	{ 1 Peruvian pound = 10 Soles	4.8665	2053 Peruvian pounds
Peru	1 Sol = 100 Centavos	.4867	2.0533 Soles
Philippines	1 Peso = 100 Centavos	.5000	2.0000 Pesos
Poland	1 Zloty = 100 Grozy	.1930	5.1813 Zloty
Portugal	1 Escudo = 100 Centavos	1.0805	9.254 Escudos
Roumania	1 Leu = 100 Bani	.1930	5.1813 Lei
Russia	1 Chervonetz = 10 Roubles	5.1460	1.943 Chervontsi
Spain	1 Peseta = 100 Centimos	.1930	5.1813 Pesetas
Sweden	1 Krona = 100 Ore	.2680	3.7313 Kronor
Switzerland	1 Franc = 100 Centimes	.1930	5.1813 Francs
Turkey	{ 1 Turkish pound = 100 Piastres	4.3900	2273 Turkish pounds
	{ 1 Piastre = 40 Paras	.0439	22.7272 Piastres
Uruguay ⁸	1 Peso = 100 Centesimos	1.0342	.9671 Pesos
Venezuela	1 Bolivar = 100 Centimos	.1930	5.1813 Bolivares

¹ Currency in circulation is paper, normally convertible into gold at the rate of 44 gold pesos to 100 paper pesos.

² Currency is the paper milreis, which being inconvertible fluctuates in value.

³ Circulation is the paper peso, which being inconvertible fluctuates in value.

⁴ There is no uniform currency in China, the Mexican silver dollar being mostly used. The British dollar, termed Hongkong currency, has the same legal value as the Mexican dollar in Hongkong and the Straits settlements, and usually prevails at about 50 cents United States gold.

⁵ The actual standard is the pound sterling which is legal tender for 97½ piastres.

⁶ Nominally the monetary system is based on gold pesos of the above value. Actual circulation however, is practically confined to paper notes, which being irredeemable have depreciated to the approximate value of 2 cents United States currency.

⁷ Circulation is silver at above its metallic value.

⁸ Currency is inconvertible paper.

NOTE. — Foreign money values are all subject to fluctuations.

Statistical History of the American Cotton Industry

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1790 .	-	-	-	-	-	-	-
2	1800 .	-	-	-	-	-	-	-
3	1810 .	-	-	-	-	-	-	-
4	1820 .	-	-	-	-	-	-	-
5	1830 .	-	-	-	-	-	-	\$7,865
6	1840 .	1,240	\$46,350	72,119	2,104	2,285	-	6,504
7	1850 .	1,094	61,869	92,286	3,733	3,998	-	20,781
8	1860 .	1,091	115,682	122,028	4,912	5,236	126,313	33,216
9	1870 .	956	177,490	135,369	6,804	7,132	157,310	23,380
10	1871 .	-	-	-	-	-	-	-
11	1872 .	-	-	-	-	-	-	-
12	1873 .	-	-	-	-	-	-	-
13	1874 .	-	-	-	-	-	-	-
14	1875 .	-	-	-	-	-	-	-
15	1876 .	-	-	-	-	-	-	-
16	1877 .	-	-	-	-	-	-	-
17	1878 .	-	-	-	-	-	-	-
18	1879 .	756	192,090	174,659	-	-	-	-
19	1880 .	-	-	-	10,092	10,653	225,759	-
20	1881 .	-	-	-	-	-	-	-
21	1882 .	-	-	-	-	-	-	34,351
22	1883 .	-	-	-	11,800	12,660	-	36,854
23	1884 .	-	-	-	12,250	13,300	-	29,075
24	1885 .	-	-	-	12,250	13,375	-	27,197
25	1886 .	-	-	-	12,250	13,400	-	29,709
26	1887 .	-	-	-	12,300	13,500	-	28,940
27	1888 .	-	-	-	12,300	13,550	-	28,918
28	1889 .	905	267,982	218,876	12,700	14,060	-	26,806
29	1890 .	-	-	-	12,814	14,384	324,866	29,918
30	1891 .	-	-	-	12,900	14,640	-	29,713
31	1892 .	-	-	-	13,250	15,200	-	28,324
32	1893 .	-	-	-	13,450	15,550	-	33,638
33	1894 .	-	-	-	13,500	15,700	-	22,440
34	1895 .	-	-	-	13,700	16,100	-	33,297
35	1896 .	-	-	-	13,800	16,650	-	32,643
36	1897 .	-	-	-	13,900	17,150	-	34,601
37	1898 .	-	-	-	13,900	17,450	-	27,420
38	1899 .	1,055	339,200	302,861	14,150	18,100	-	32,265

Statistical History of the American Cotton Industry — (Continued)

Exports of Cotton Manu- factures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
—	3	—	—	—	—	26.0	—	1
—	73	—	—	—	—	44.0	—	2
—	178	—	—	—	—	15.5	—	3
—	335	—	—	—	—	14.3	—	4
\$1,318	732	—	—	—	—	9.7	—	5
3,550	1,348	166	237	—	—	9.5	—	6
4,734	2,136	497	575	—	—	12.1	7.87	7
10,935	3,841	751	845	—	—	13.0	8.75	8
3,787	4,025	728	797	8,885	199	17.0	14.58	9
—	2,757	1,072	1,163	7,558	148	16.2	13.00	10
—	3,651	977	1,097	8,483	189	21.4	14.27	11
—	3,874	1,063	1,201	9,510	180	19.1	13.31	12
—	3,528	1,192	1,320	11,764	148	16.2	11.42	13
—	4,303	1,071	1,201	11,934	191	15.0	10.41	14
—	4,118	1,220	1,354	11,677	168	12.1	8.85	15
—	4,494	1,302	1,429	12,133	164	11.3	8.46	16
—	4,745	1,345	1,496	12,344	191	10.8	7.80	17
—	5,466	1,379	1,561	14,480	181	10.4	7.97	18
—	6,357	1,382	1,570	15,951	185	11.8	8.51	19
—	5,136	1,713	1,938	16,711	150	10.8	8.51	20
13,223	6,833	1,677	1,964	16,277	186	11.8	8.45	21
12,951	5,522	1,759	2,072	16,778	165	10.1	8.32	22
11,885	5,477	1,537	1,877	17,440	154	11.0	7.28	23
11,837	6,369	1,437	1,753	18,301	164	10.7	6.75	24
13,960	6,315	1,781	2,162	18,455	170	9.4	6.75	25
14,929	6,885	1,687	2,088	18,641	183	10.0	7.15	26
13,013	6,924	1,805	2,261	19,059	180	10.3	7.25	27
10,213	7,473	1,790	2,270	20,175	160	10.4	7.00	28
9,999	8,562	1,979	2,518	19,512	187	11.3	7.00	29
13,605	8,941	2,027	2,640	19,059	179	9.9	6.83	30
13,226	6,658	2,172	2,856	15,911	209	7.8	6.50	31
11,809	7,433	1,652	2,375	19,525	150	8.4	5.90	32
14,341	10,026	1,580	2,291	23,688	195	7.7	5.11	33
13,790	7,147	2,019	2,871	20,185	156	6.2	5.74	34
16,837	8,516	1,605	2,505	23,273	185	8.1	5.45	35
21,038	10,985	1,793	2,792	24,320	183	7.7	4.73	36
17,024	11,435	2,211	3,465	24,967	221	6.3	4.20	37
23,567	9,460	2,217	3,632	24,327	184	6.1	5.28	38

Statistical History of the American Cotton Industry — (Continued)

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1900 .	—	—	—	15,104	19,472	455,752	\$41,541
2	1901 .	—	—	—	14,700	20,200	—	40,436
3	1902 .	—	—	—	15,000	21,400	—	44,956
4	1903 .	—	—	—	15,100	22,000	—	53,269
5	1904 .	1,154	\$450,468	315,874	15,200	22,850	540,910	50,370
6	1905 .	—	—	—	16,056	23,687	—	50,162
7	1906 .	—	—	—	16,255	25,250	—	64,399
8	1907 .	—	—	—	16,847	26,375	—	74,747
9	1908 .	—	—	—	17,304	27,505	—	68,825
10	1909 .	1,324	628,392	378,880	17,589	28,018	632,963	63,232
11	1910 .	—	—	—	17,773	28,267	—	68,053
12	1911 .	—	—	—	18,438	29,523	—	66,997
13	1912 .	—	—	—	18,996	30,579	—	65,153
14	1913 .	—	—	—	19,293	31,520	—	66,066
15	1914 .	1,328	701,301	393,404	19,396	32,107	672,754	70,705
16	1915 .	—	—	—	19,008	31,964	—	46,205
17	1916 .	—	—	—	19,424	32,806	—	53,751
18	1917 .	—	—	—	19,733	33,889	—	53,825
19	1918 .	—	—	—	20,014	34,543	—	40,701
20	1919 .	1,496	2,195,566	446,852	20,085	34,931	692,169	52,652
21	1920 .	—	—	—	20,250	35,481	—	137,583
22	1921 .	1,527	1,330,263	425,817	20,338	36,047	—	75,430
23	1922 .	—	—	—	19,802	35,708	—	87,070
24	1923 .	1,643	2,010,141	495,197	19,950	36,260	—	100,153
25	1924 .	—	—	—	18,905	35,849	—	90,914
26	1925 .	1,638	1,819,886	468,352	17,740	35,032	—	79,271
27	1926 .	—	—	—	17,176	34,750	—	67,159
28	1927 .	—	—	—	16,515	34,410	—	66,196

The figures in this table are not all precisely comparable throughout the entire period shown but are presented to show in a general way the changes which have taken place in the industry. The data are from various sources, largely official.

Statistical History of the American Cotton Industry —
(Concluded)

Exports of Cotton Manu- factures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
\$24,003	10,267	2,350	3,873	24,933	194	9.1	6.05	1
20,272	9,776	1,964	3,547	26,774	170	8.1	5.54	2
32,108	10,827	2,066	4,083	27,175	187	8.2	5.48	3
32,216	10,046	1,966	3,924	27,052	174	12.2	6.25	4
22,404	13,680	2,046	3,935	31,215	206	8.7	7.13	5
49,666	10,805	2,139	4,279	27,110	187	10.9	7.00	6
52,944	13,595	2,536	4,909	31,374	203	10.0	7.25	7
32,305	11,375	2,574	4,985	29,660	179	11.5	7.62	8
25,178	13,587	2,352	4,539	32,444	195	9.2	6.75	9
31,879	10,315	2,687	5,241	30,938	154	14.3	7.37	10
33,397	12,006	2,388	4,622	32,403	171	14.0	7.87	11
40,852	16,250	2,249	4,498	36,045	208	9.6	7.98	12
50,770	14,313	2,493	5,129	34,283	191	11.5	7.79	13
51,510	14,795	2,621	5,483	37,089	182	12.5	8.05	14
49,246	16,992	2,652	5,577	36,832	209	7.3	7.68	15
70,247	12,123	2,570	5,597	31,412	170	11.2	6.74	16
127,052	12,781	2,870	6,398	34,985	157	17.3	9.18	17
157,267	12,428	2,900	6,789	33,841	160	27.1	14.50	18
179,106	12,970	2,869	6,566	36,008	160	28.8	23.38	19
270,235	12,029	2,567	5,766	33,566	162	35.4	22.60	20
398,458	13,880	2,837	6,420	35,878	178	15.8	23.08	21
115,539	8,351	1,895	4,893	30,509	125	16.9	12.80	22
136,778	10,370	2,180	5,910	33,036	141	22.9	13.63	23
136,300	10,808	2,418	6,666	37,123	131	28.7	16.50	24
130,808	14,488	1,822	5,681	41,360	157	22.9	14.47	25
146,272	17,218	1,973	6,193	46,053	167	19.6	13.20	26
128,877	19,137	1,955	6,456	47,087	182	12.5	11.16	27
133,059	12,955	1,996	7,190	40,138	154	—	10.95	28

TECHNICAL

FOREWORD

In the Year Book of 1928 have been included those charts and tables of engineering data which the experience of previous years has shown to be useful to those engaged in cotton manufacturing.

The introduction of rayon into the industry has given rise to new problems which call for special consideration. Thus far attention has been given only to the identification of such fibers. An attempt will be made in the next issue to provide data on the strength and elasticity characteristics of the various rayons and other artificial silks. At present, in view of the rapid changes being made in the fibers, the presentation of such information is not feasible.

R. G. KNOWLAND, *Chairman*
Technical Committee

INTRODUCTION

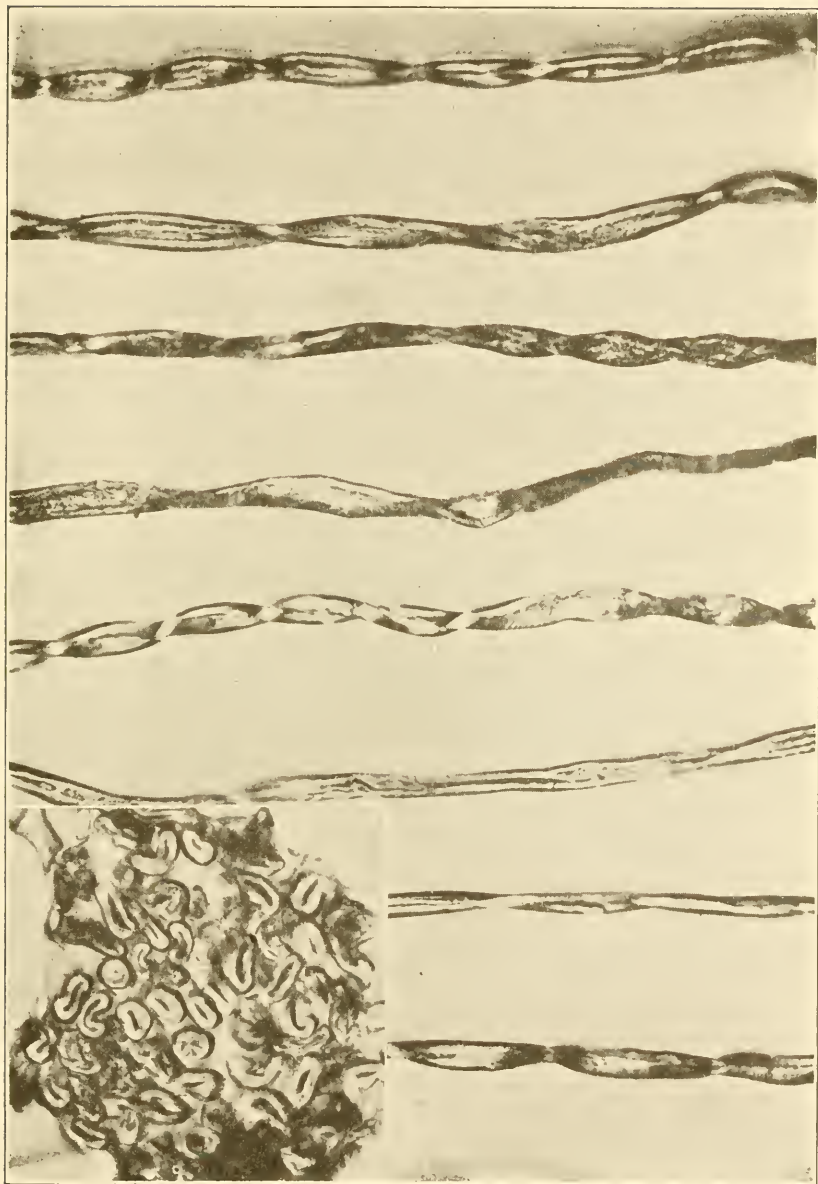
The Technical Section of the Year Book presents in condensed form many of the standard tables on production that we believe will be of use to the cotton manufacturer. In addition there are tables giving the constructions of many of the standard cloths reported by the Cotton-Textile Institute, Inc., and the Association of Cotton Textile Merchants of New York; Standard Test Methods for Testing Textile Materials in use by the Federal Specifications Board; Yarn Test Methods approved by the American Society for Testing Materials; data on the conversion of yarn numbers from one system to another; methods of identification of rayon; breaking strength tables for yarn and other miscellaneous information.

Acknowledgment has been made in most cases where the data are used. In addition we are indebted to Prof. George B. Haven, Gilbert R. Merrill, The Cotton Research Company, Textile World, Saco-Lowell Shops, Whitin Machine Works, Draper Corporation, H. & B. American Machine Company, U. S. Testing Company, The Silk Association of America, Fales & Jenks Machine Company, and the American Society for Testing Materials, for their courtesy in giving permission to republish certain of their tables.

Upland Cotton Fiber

Longitudinal Appearance and Cross-Sections
[Magnification 250]

Courtesy of The Cotton Research Company



Weight Equivalents

Corrected to second decimal place

1 ounce = 437.5 grains = 28.35 grams	9 ounces = 3937.5 grains = 255.14 grams
1½ ounces = 656.25 grains = 42.52 grams	9½ ounces = 4156.25 grains = 269.32 grams
2 ounces = 875.0 grains = 56.70 grams	10 ounces = 4375.0 grains = 283.50 grams
2½ ounces = 1093.75 grains = 70.87 grams	10½ ounces = 4593.75 grains = 297.67 grams
3 ounces = 1312.5 grains = 85.05 grams	11 ounces = 4812.5 grains = 311.84 grams
3½ ounces = 1531.25 grains = 99.22 grams	11½ ounces = 5031.25 grains = 326.02 grams
4 ounces = 1750.0 grains = 113.40 grams	12 ounces = 5250.0 grains = 340.19 grams
4½ ounces = 1968.75 grains = 127.57 grams	12½ ounces = 5468.75 grains = 354.37 grams
5 ounces = 2187.5 grains = 141.75 grams	13 ounces = 5687.5 grains = 368.54 grams
5½ ounces = 2406.25 grains = 155.92 grams	13½ ounces = 5906.25 grains = 382.71 grams
6 ounces = 2625.0 grains = 170.10 grams	14 ounces = 6125.0 grains = 396.89 grams
6½ ounces = 2843.75 grains = 184.27 grams	14½ ounces = 6343.75 grains = 411.06 grams
7 ounces = 3062.5 grains = 198.44 grams	15 ounces = 6562.5 grains = 425.24 grams
7½ ounces = 3281.25 grains = 212.62 grams	15½ ounces = 6781.25 grains = 439.41 grams
8 ounces = 3500.0 grains = 226.79 grams	16 ounces = 7000.0 grains = 453.59 grams
8½ ounces = 3718.75 grains = 240.97 grams	

Reference Data

Millimeters $\times .03937$ = inches or millimeters $\div 25.4$ = inches.

Centimeters $\times .3937$ = inches or centimeters $\div 2.54$ = inches.

Meters $\times 39.37$ = inches or meters $\times 3.281$ = feet.

Kilometers $\times .621$ = miles.

Square centimeters $\times .155$ = square inches or square meters $\times 10.764$ = square feet.

Cubic meters $\times 35.315$ = cubic feet or cubic meters $\times 1.308$ = cubic yards.

Liters $\times .2642$ = gallons (231 cubic inches).

Grams $\times 15.432$ = grains or grams $\div 28.35$ = ounces avoirdupois.

Kilograms $\times 2.2046$ = pounds or kilograms $\div 907.2$ = tons (2,000 pounds).

Kilowatts $\times 1.34$ = horse power or watts $\div 746$ = horse power.

Calorie $\times 3.968$ = British Thermal Unit.

1 Pint of water weighs 1.045 pounds.

1 Gallon of water = .1339 cubic feet = 8.36 pounds of water at 62° F.

1 Mile = 5,280 feet.

1 Pound (avoirdupois) = 7,000 grains = 453.6 grams.

1 Horse Power = 33,000 foot pounds of work done per minute = 746 watts.

The pressure of one atmosphere = 14.7 pounds per square inch, = 2,116 pounds per square foot, = a column of mercury 760 millimeters high.

A column of water 2.3 feet high corresponds to a pressure of 1 pound per square inch.

Conversion of Thermometer Readings

F°	C°	F°	C°	F°	C°	F°	C°	F°	C°	F°	C°
-40	-40.00	30	-1.11	80	26.67	250	121.11	500	260.00	900	482.22
-38	-38.89	31	-0.56	81	27.22	255	123.89	505	262.78	910	487.78
-36	-37.78	32	0.00	82	27.78	260	126.67	510	265.56	920	493.33
-34	-36.67	33	0.56	83	28.33	265	129.44	515	268.33	930	498.89
-32	-35.56	34	1.11	84	28.89	270	132.22	520	271.11	940	504.44
-30	-34.44	35	1.67	85	29.44	275	135.00	525	273.89	950	510.00
-28	-33.33	36	2.22	86	30.00	280	137.78	530	276.67	960	515.56
-26	-32.22	37	2.78	87	30.56	285	140.55	535	279.44	970	521.11
-24	-31.11	38	3.33	88	31.11	290	143.33	540	282.22	980	526.67
-22	-30.00	39	3.89	89	31.67	295	146.11	545	285.00	990	532.22
-20	-28.89	40	4.44	90	32.22	300	148.89	550	287.78	1000	537.78
-18	-27.78	41	5.00	91	32.78	305	151.67	555	290.55	1050	565.56
-16	-26.67	42	5.56	92	33.33	310	154.44	560	293.33	1100	593.33
-14	-25.56	43	6.11	93	33.89	315	157.22	565	296.11	1150	621.11
-12	-24.44	44	6.67	94	39.44	320	160.00	570	298.89	1200	648.89
-10	-23.33	45	7.22	95	35.00	325	162.78	575	301.67	1250	676.67
-8	-22.22	46	7.78	96	35.56	330	165.56	580	304.44	1300	704.44
-6	-21.11	47	8.33	97	36.11	335	168.33	585	307.22	1350	732.22
-4	-20.00	48	8.89	98	36.67	340	171.11	590	310.00	1400	760.00
-2	-18.89	49	9.44	99	37.22	345	173.89	595	312.78	1450	787.78
0	-17.78	50	10.00	100	37.78	350	176.67	600	315.56	1500	815.56
1	-17.22	51	10.56	105	40.55	355	179.44	610	321.11	1550	843.33
2	-16.67	52	11.11	110	43.33	360	182.22	620	326.67	1600	871.11
3	-16.11	53	11.67	115	46.11	365	185.00	630	332.22	1650	898.89
4	-15.56	54	12.22	120	48.89	370	187.78	640	337.78	1700	926.67
5	-15.00	55	12.78	125	51.67	375	190.55	650	343.33	1750	954.44
6	-14.44	56	13.33	130	54.44	380	193.33	660	348.89	1800	982.22
7	-13.89	57	13.89	135	57.22	385	196.11	670	354.44	1850	1010.00
8	-13.33	58	14.44	140	60.00	390	198.89	680	360.00	1900	1037.78
9	-12.78	59	15.00	145	62.78	395	201.67	690	365.56	1950	1065.56
10	-12.22	60	15.56	150	65.56	400	204.44	700	371.11	2000	1093.33
11	-11.67	61	16.11	155	68.33	405	207.22	710	376.67	2050	1121.11
12	-11.11	62	16.67	160	71.11	410	210.00	720	382.22	2100	1148.89
13	-10.56	63	17.22	165	73.89	415	212.78	730	387.78	2150	1176.67
14	-10.00	64	17.78	170	76.67	420	215.56	740	393.33	2200	1204.44
15	-9.44	65	18.33	175	79.44	425	218.33	750	398.89	2250	1232.22
16	-8.89	66	18.89	180	82.22	430	221.11	760	404.44	2300	1260.00
17	-8.33	67	19.44	185	85.00	435	223.89	770	410.00	2350	1287.78
18	-7.78	68	20.00	190	87.78	440	226.67	780	415.56	2400	1315.56
19	-7.22	69	20.56	195	90.55	445	229.44	790	421.11	2450	1343.33
20	-6.67	70	21.11	200	93.33	450	232.22	800	426.67	2500	1371.11
21	-6.11	71	21.67	205	96.11	455	235.00	810	432.22	2550	1398.89
22	-5.56	72	22.22	212	100.00	460	237.78	820	437.78	2600	1426.67
23	-5.00	73	22.78	215	101.67	465	240.55	830	443.33	2650	1454.44
24	-4.44	74	23.33	220	104.44	470	243.33	840	448.89	2700	1482.22
25	-3.89	75	23.89	225	107.22	475	246.11	850	454.44	2750	1510.00
26	-3.33	76	24.44	230	110.00	480	248.89	860	460.00	2800	1537.78
27	-2.78	77	25.00	235	112.78	485	251.67	870	465.56	2850	1565.56
28	-2.22	78	25.56	240	115.56	490	254.44	880	471.11	2900	1593.33
29	-1.67	79	26.11	245	118.33	495	257.22	890	476.67	2950	1621.11

Specific Gravity, Degrees Twaddle and Degrees Beaumé

English Standard 15°c.

Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity
0	0	1.000	44	26.0	1.220	88	44.1	1.440	132	57.4	1.660
1	0.7	1.005	45	26.4	1.225	89	44.4	1.445	133	57.7	1.665
2	1.4	1.010	46	26.9	1.230	90	44.8	1.450	134	57.9	1.670
3	2.1	1.015	47	27.4	1.235	91	45.1	1.455	135	58.2	1.675
4	2.7	1.020	48	27.9	1.240	92	45.4	1.460	136	58.4	1.680
5	3.4	1.025	49	28.4	1.245	93	45.8	1.465	137	58.7	1.685
6	4.1	1.030	50	28.8	1.250	94	46.1	1.470	138	58.9	1.690
7	4.7	1.035	51	29.3	1.255	95	46.4	1.475	139	59.2	1.695
8	5.4	1.040	52	29.7	1.260	96	46.8	1.480	140	59.5	1.700
9	6.0	1.045	53	30.2	1.265	97	47.1	1.485	141	59.7	1.705
10	6.7	1.050	54	30.6	1.270	98	47.4	1.490	142	60.0	1.710
11	7.4	1.055	55	31.1	1.275	99	47.8	1.495	143	60.2	1.715
12	8.0	1.060	56	31.5	1.280	100	48.1	1.500	144	60.4	1.720
13	8.7	1.065	57	32.0	1.285	101	48.4	1.505	145	60.6	1.725
14	9.4	1.070	58	32.4	1.290	102	48.7	1.510	146	60.9	1.730
15	10.0	1.075	59	32.8	1.295	103	49.0	1.515	147	61.1	1.735
16	10.6	1.080	60	33.3	1.300	104	49.4	1.520	148	61.4	1.740
17	11.2	1.085	61	33.7	1.305	105	49.7	1.525	149	61.6	1.745
18	11.9	1.090	62	34.2	1.310	106	50.0	1.530	150	61.8	1.750
19	12.4	1.095	63	34.6	1.315	107	50.3	1.535	151	62.1	1.755
20	13.0	1.100	64	35.0	1.320	108	50.6	1.540	152	62.3	1.760
21	13.6	1.105	65	35.4	1.325	109	50.9	1.545	153	62.5	1.765
22	14.2	1.110	66	35.8	1.330	110	51.2	1.550	154	62.8	1.770
23	14.9	1.115	67	36.2	1.335	111	51.5	1.555	155	63.0	1.775
24	15.4	1.120	68	36.6	1.340	112	51.8	1.560	156	63.2	1.780
25	16.0	1.125	69	37.0	1.345	113	52.1	1.565	157	63.5	1.785
26	16.5	1.130	70	37.4	1.350	114	52.4	1.570	158	63.7	1.790
27	17.1	1.135	71	37.8	1.355	115	52.7	1.575	159	64.0	1.795
28	17.7	1.140	72	38.2	1.360	116	53.0	1.580	160	64.2	1.800
29	18.3	1.145	73	38.6	1.365	117	53.3	1.585	161	64.4	1.805
30	18.8	1.150	74	39.0	1.370	118	53.6	1.590	162	64.6	1.810
31	19.3	1.155	75	39.4	1.375	119	53.9	1.595	163	64.8	1.815
32	19.8	1.160	76	39.8	1.380	120	54.1	1.600	164	65.0	1.820
33	20.3	1.165	77	40.1	1.385	121	54.4	1.605	165	65.2	1.825
34	20.9	1.170	78	40.5	1.390	122	54.7	1.610	166	65.5	1.830
35	21.4	1.175	79	40.8	1.395	123	55.0	1.615	167	65.7	1.835
36	22.0	1.180	80	41.2	1.400	124	55.2	1.620	168	65.9	1.840
37	22.5	1.185	81	41.6	1.405	125	55.5	1.625	169	66.1	1.845
38	23.0	1.190	82	42.0	1.410	126	55.8	1.630	170	66.3	1.850
39	23.5	1.195	83	42.3	1.415	127	56.0	1.635	171	66.5	1.855
40	24.0	1.200	84	42.7	1.420	128	56.3	1.640	172	66.7	1.860
41	24.5	1.205	85	43.1	1.425	129	56.6	1.645	173	67.0	1.865
42	25.0	1.210	86	43.4	1.430	130	56.9	1.650			
43	25.5	1.215	87	43.8	1.435	131	57.1	1.655			

Approximate Power required for Cotton Machinery

	Horse Power
Bale Breaker	3-5
Self-Feeding Openers	3
Combined Self-Feeding Opener and Single Beater Breaker Lap- per	9
40" Single Beater Intermediate or Finisher Lapper	5
Two-Beater Intermediate or Finisher Lapper	10-12
Waste Picker	3
Thread Extractor with Condenser	2
40" Revolving Flat Card, Production 750 lbs. per week	1
Sliver Lap Machine	$\frac{1}{2}$
Ribbon Lap Machine	1
Comber 6-head	$\frac{1}{2}$
Comber 8-head	$\frac{2}{3}$
Drawing Frames 4 to 5 deliveries per	1
Slubber Frames 40 to 45 spindles per	1
Intermediate Frames 55 to 60 spindles per	1
Roving Frames 70 to 85 spindles per	1
Jack or Fine Roving Frames 100 spindles per	1
Ring Spinning Frames:	
6,000 r. p. m. (Filling) 110 spindles per	1
7,000 r. p. m. (Filling) 100 spindles per	1
8,000 r. p. m. (Warp) 90 spindles per	1
8,500 r. p. m. (Warp) 80 spindles per	1
9,000 r. p. m. (Warp) 70 spindles per	1
10,000 r. p. m. (Warp) 60 spindles per	1
Mule, 720 spindles per	$7\frac{1}{2}$
Twisters 10 to 50 spindles per	1
Cone Winders 65 drums per	1
Spoolers 200 to 300 spindles per	1
Warpers	$\frac{1}{4}-\frac{1}{2}$
Ball Warpers	$\frac{1}{2}$
Slasher	2
Looms:	
32" and 36"	$\frac{1}{4}$
40" and 48"	$\frac{1}{3}$
80"	$\frac{1}{2}$
92" to 108"	$\frac{3}{4}-1$
Brusher	1
Brusher and Shearer	3
Cloth Folder	$\frac{1}{3}-\frac{1}{2}$

NOTE. — The above figures are only approximate, but they give a fair average of the power required to drive the various machines. The speed production and many other conditions affect the power consumed. For Friction of Belting and Shafting add from 18 to 22 per cent.

Card Settings

The following settings give the usual range for carding. Individual mill conditions must govern the actual setting.

	Inches
Feed plate from lickerin	7/1000-17/1000
Mote knives from lickerin	17/1000-22/1000
Lickerin from cylinder	7/1000-10/1000
Lickerin screen from lickerin	29/1000- 1/8
Cylinder screen from cylinder:	
Lickerin end	17/1000-29/1000
Middle	30/1000-58/1000
Doffer end	34/1000- 3/16
Doffer from cylinder	5/1000- 7/1000
Doffer comb from doffer	10/1000-22/1000
Flats from cylinder	7/1000-12/1000

Card Clothing Data

English Counts	Points per Square Foot	American Number of Wire
60s	43,200	28
70s	50,400	30
80s	57,600	31
90s	64,800	32
100s	72,000	33
110s	79,200	34
120s	86,400	35
130s	93,600	36

Counts ordinarily used

	Cylinders	Doffers	Flats
Coarse yarns . . .	90s to 100s	100s to 110s	90s to 100s
Medium yarns . . .	100s to 110s	110s to 120s	100s to 110s

Common and Range of Production for Cotton Machinery

MACHINE	Range of Draft	Common Draft	Range of Production (10 Hours)	Common Production (10 Hours)	Per Cent Waste	Range of Speeds R. P. M.	Range of Sizes	Common Sizes	Per Cent Stops	
Bale opener . . .	-	-	4,000-10,000	5,000-7,000	-	-	-	-	10	
Breaker picker . .	-	2	1,500-3,000	2,000	2.5-3	9" Cal. Roll 4-8	10-20	13-16	5	
Intermediate picker	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	10-20	12-15	5	
Finisher picker . .	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	10-20	11-14	10	
Card . . .	85-130	90-110	30-200	85-150	4-12 (5-6)	27" Doffer 4-18	Grains 30-100	50-60	5	
Sliver lapper (20 ends)	1 $\frac{1}{2}$ -2 $\frac{1}{2}$	2-2 $\frac{1}{2}$	750-1,200	1,000	1	5" Press Roll 90-100	350-800	450-600	25	
Ribbon lapper (4 head)	3-5	4	750-1,200	1,000	1	90-100	350-800	450-600	25	
Comb (8 head) . .	40-80	60	80-150	100-128	Noil 8-30 Common 12-18	Nips 90-130	Grains 40-70	50-60	5	
Draw frame (6 ends)	4-8	6	75-300	100-150	Less than 1	Front Roll 275-375	40-70	50-60	20-25	
Slubber . . .	3-5	4	For Production figures see pages 196, 197, 198, 199, 200, 201		Less than 1	Sp. Speed 600-800	Hank .25-1.0	Hank	15-20	
Intermediate . . .	4-6	5			Less than 1	800-1,000	1-2.5	.4-1.0		
Fine . . .	5-7	6			Less than 1	1,000-1,200	2.5-6.0	1-2.5	12-15	
Jack . . .	6-8	7			Less than 1	1,200-1,500	6 Hank and up	2.5-6.0 6 Hank and up	4-12 7-9	
Ring spinning . .	6-20	8-12				4,000-10,000	4's-140	4's-140	10	
Mule . . .	6-20	8-12				4,000-10,000	15's-400	15's-400	12	

Range of Production of Roving Frames

SLUBBER (12 x 6 Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
.25	.50-.60	267-322	17.24-17.54	11.85-13.30	47.4-53.21
.30	.55-.66	243-292	14.59-14.87	12.03-13.37	40.11-44.57
.35	.59-.71	226-273	12.55-12.81	12.08-13.42	34.52-38.36
.40	.63-.76	211-255	10.88-11.12	11.97-13.46	29.93-33.66
.45	.67-.80	201-240	9.60-9.83	11.88-13.25	26.39-29.45
.50	.71-.85	189-226	8.44-8.73	11.61-13.09	23.21-26.18
.55	.74-.89	180-217	7.54-7.72	11.40-12.96	20.72-23.57
.60	.78-.93	173-206	6.77-7.00	11.17-12.52	18.61-20.87
.65	.81-.97	165-199	6.11-6.27	10.92-12.33	16.80-18.98
.70	.84-1.00	160-191	5.59-5.74	10.75-12.16	15.36-17.38
.75	.87-1.04	154-185	5.09-5.23	10.49-11.90	13.99-15.87
.80	.90-1.07	150-179	4.69-4.82	10.31-11.56	12.89-14.46

SLUBBER (11 x 5½ Bobbin)

.40	.63-.76	234-277	14.53-14.54	11.62-12.64	29.06-31.60
.45	.67-.80	223-260	13.02 -	11.71-12.55	26.04-27.90
.50	.71-.84	210-245	11.60-11.70	11.60-12.50	23.21-25.00
.55	.74-.89	200-235	10.46-10.47	11.52-12.45	20.72-22.64
.60	.78-.92	192-223	9.49-9.57	11.38-12.19	18.61-20.32
.65	.81-.97	184-215	8.63-8.64	11.22-12.18	16.80-18.75
.70	.84-1.00	178-207	7.95 -	11.13-11.99	15.36-17.14
.75	.87-1.04	171-200	7.28 -	10.92-11.83	13.99-15.78
.80	.90-1.07	166-194	6.74-6.75	10.78-11.71	12.89-14.64
.85	.92-1.11	160-189	6.21-6.22	10.57-11.59	11.82-13.64
.90	.95-1.14	156-183	5.79 -	10.42-11.38	10.97-12.64
.95	.97-1.17	152-180	5.40-5.41	10.26-11.28	10.20-11.88
1.00	1.00-1.20	148-174	5.06-5.07	10.12-11.10	9.52-11.10

INTERMEDIATE (10 x 5 Bobbin)

.90	1.04-1.14	190-206	8.57-8.60	11.56-11.70	12.85-13.00
.95	1.07-1.17	185-200	8.07 -	11.50-11.58	12.10-12.19
1.00	1.10-1.20	180-195	7.59 -	11.38-11.34	11.38-11.34
1.05	1.13-1.23	176-190	7.15-7.16	11.27-11.25	10.73-10.71
1.10	1.15-1.26	172-186	6.72-6.75	11.08-11.18	10.08-10.16
1.15	1.18-1.29	168-182	6.37-6.38	10.99-11.10	9.56-9.65
1.20	1.20-1.31	165-179	6.07 -	10.93-11.04	9.11-9.20
1.25	1.23-1.34	161-174	5.74-5.75	10.76-10.89	8.61-8.71
1.30	1.25-1.37	158-172	5.45-5.46	10.63-10.73	8.18-8.26
1.35	1.28-1.39	154-168	5.20-5.21	10.53-10.62	7.80-7.87
1.40	1.30-1.42	150-165	4.95-4.96	10.39-10.51	7.42-7.51
1.50	1.35-1.47	147-159	4.52-4.53	10.17-10.26	6.78-6.84
1.60	1.39-1.52	142-154	4.14 -	9.94-10.08	6.21-6.30

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames — (Continued)

INTERMEDIATE (9 x 4½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
1.40	1.42 -	170 -	6.96- 6.95	10.40-10.96	7.43- 7.83
1.50	1.47 -	164-165	6.39- 6.40	10.14-10.80	6.76- 7.20
1.60	1.52 -	159 -	5.88 -	10.00-10.59	6.25- 6.62
1.75	1.59 -	152 -	5.23- 5.24	9.71-10.31	5.55- 5.89
2.00	1.69-1.70	142 -	4.39 -	9.32- 9.88	4.66- 4.94

INTERMEDIATE (8 x 4 Bobbin)

2.50	1.90 -	156-160	4.45 -	9.70- 9.75	3.66- 3.90
3.00	2.08 -	143-146	3.48- 3.49	9.12- 9.15	2.85- 3.05
3.50	2.24 -	133-136	8.65 -	8.68- 8.65	2.31- 2.47

FLY FRAME (7 x 3½ Bobbin)

3.00	2.07-2.25	151-157	5.10- 5.12	8.67- 9.60	2.89- 3.20
3.25	2.16-2.34	145-151	4.60 -	8.48- 9.36	2.61- 2.88
3.50	2.24-2.43	140-145	4.17 -	8.33- 9.14	2.38- 2.61
3.75	2.32-2.52	135-140	3.80 -	8.14- 8.93	2.17- 2.38
4.00	2.40-2.60	131-136	3.47- 3.48	7.96- 8.72	1.99- 2.18
4.25	2.47-2.68	127-132	3.20 -	7.86- 8.50	1.85- 2.00
4.50	2.54-2.76	123-128	2.96 -	7.70- 8.33	1.71- 1.85
4.75	2.60-2.83	120-125	2.75 -	7.55- 8.17	1.59- 1.72
5.00	2.67-2.90	117-121	2.55- 2.56	7.45- 8.00	1.49- 1.60
5.25	2.75-2.98	114-119	2.38 -	7.30- 7.82	1.39- 1.49
5.50	2.80-3.05	111-116	2.23- 2.24	7.15- 7.70	1.30- 1.40
5.75	2.88-3.12	109-113	2.09 -	7.02- 7.53	1.22- 1.31
6.00	2.92-3.18	107-111	1.97 -	6.96- 7.38	1.16- 1.23
6.50	3.06-3.31	103-106	1.76 -	6.70- 7.15	1.03- 1.10
7.00	3.17-3.44	98-103	1.58 -	6.44- 6.93	.92- .99

JACK FRAME (6 x 3 Bobbin)

8.00	3.39-3.40	104-109	1.98- 2.06	6.88- 7.21	.86- .90
9.00	3.60 -	98-102	1.67- 1.74	6.57- 6.85	.73- .76
10.00	3.79 -	93- 97	1.44- 1.50	6.30- 6.56	.63- .66
11.00	3.97-3.99	89- 92	1.26- 1.30	6.05- 6.26	.55- .57
12.00	4.16 -	85- 89	1.15- 1.14	5.88- 6.04	.49- .50
13.00	4.33 -	82- 85	.98- 1.02	5.59- 5.80	.43- .45
14.00	4.49-4.50	79- 82	.88- .92	5.39- 5.46	.39- .40

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames — (Concluded)

JACK (6 x 2½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
11.00	3.97-4.31	89-100	1.71- 1.93	5.72- 6.63	.52- .60
12.00	4.15-4.50	85- 95	1.51- 1.70	5.52- 6.36	.46- .53
13.00	4.33-4.69	82- 91	1.34- 1.52	5.33- 6.18	.41- .48
14.00	4.49-4.86	79- 88	1.20- 1.37	5.18- 5.99	.37- .43
16.00	4.80-5.20	74- 83	.99- 1.12	4.96- 5.60	.31- .35
18.00	5.08-5.52	69- 78	.83- .95	4.68- 5.35	.26- .30
20.00	5.36-5.81	66- 74	.71- .81	4.40- 5.06	.22- .28
22.00	5.62-6.10	63- 70	.62- .71	4.18- 4.89	.19- .22
24.00	5.87-6.37	60- 67	.55- .62	4.08- 4.66	.17- .19

JACK (7 x 3 Bobbin)

5.50	2.80-2.82	125-127	3.10- 2.93	7.70- 7.93	1.45- 1.40
5.75	2.88 -	118-123	2.54- 2.40	7.65- 7.76	1.35- 1.33
6.00	2.92-2.94	115-120	2.26- 2.41	7.56- 7.68	1.28- 1.26
6.50	3.06 -	111-116	2.02- 2.14	7.35- 7.41	1.14- 1.13
7.00	3.17 -	107-112	1.82- 1.93	7.14- 7.21	1.03- 1.02
7.50	3.29 -	103-108	1.64- 1.74	6.98- 6.90	.92- .93
8.00	3.39-3.40	100-104	1.50- 1.58	6.76- 6.72	.84- .85
9.00	3.60 -	94- 98	1.27- 1.34	6.48- 6.39	.71- .72

¹ Allowance made for doffing, etc.

Range of Production of Ring Filling Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,000-4,700	6.50-7.50	182.0-200	2.414-2.480
5	4,400-4,875	7.27-7.83	178.8-198	1.897-1.968
6	4,800-5,225	7.96-8.57	178.3-194	1.594-1.600
7	5,150-5,525	8.60-9.26	176.9-190	1.356-1.344
8	5,450-5,825	9.19-9.90	175.3-188	1.176-1.189
9	5,700-6,025	9.75-10.50	172.7-186	1.030-1.033
10	5,950-6,225	10.28-11.07	171.0-184	.928-.910
11	6,150-6,375	10.78-11.61	168.6-182	.832-.820
12	6,350-6,500	11.26-12.12	166.7-179	.763-.733
13	6,500-6,675	11.72-12.62	164.0-177	.693-.665
14	6,700-6,825	12.16-13.10	162.7-175	.638-.617
15	6,850-6,975	12.59-13.56	160.7-173	.588-.569
16	6,950-7,125	13.00-14.00	158.0-170	.542-.533
17	7,100-7,250	13.40-14.43	156.6-168	.506-.496
18	7,200-7,425	13.79-14.85	154.3-166	.471-.471
19	7,300-7,525	14.17-15.26	152.5-164	.441-.440
20	7,400-7,675	14.53-15.65	150.4-162	.418-.420
21	7,500-7,800	14.89-16.04	148.8-160	.394-.397
22	7,600-7,950	15.24-16.42	147.3-158	.372-.378
23	7,700-8,075	15.59-16.79	145.9-156	.352-.362
24	7,800-8,200	15.92-17.15	144.7-154	.335-.345
25	7,850-8,300	16.25-17.50	142.8-152	.317-.333
26	7,850-8,400	16.57-17.85	140.0-150	.302-.318
27	7,850-8,325	16.89-17.66	141.6-150	.295-.310
28	7,900-8,300	17.20-17.99	139.7-147	.280-.293
29	7,900-8,300	17.50-18.29	137.4-145	.266-.279
30	7,900-8,300	17.80-18.35	136.9-144	.259-.267
31	7,900-8,300	18.10-18.62	135.0-142	.248-.256
32	7,900-8,250	18.38-18.64	134.9-141	.239-.248
33	7,900-8,200	18.67-18.94	133.3-138	.229-.236
34	7,900-8,150	18.95-18.95	132.7-137	.222-.227
35	7,900-8,150	19.23-19.23	130.7-135	.214-.217
36	7,900-8,150	19.50-19.50	128.9-133	.206-.211
37	7,900-8,125	19.77-19.77	127.2-131	.195-.202
38	7,900-8,100	20.03-20.03	125.5-129	.190-.193
39	7,900-8,100	20.30-20.30	123.8-127	.182-.185
40	7,900-8,075	20.55-20.55	122.0-125	.177-.179
41	7,900-8,050	20.81-20.81	120.8-123	.171-.173
42	7,900-8,000	21.06-21.06	119.0-121	.165-.166
43	7,900-7,975	21.31-21.31	117.9-119	.159-.159
44	7,900-7,975	21.56-21.56	116.6-118	.154-.154
45	7,900-7,950	21.80-21.80	115.0-116	.149-.149
46	7,900-7,950	22.04-22.04	114.0-115	.144-.145
47	7,900-7,900	22.28-22.28	112.8-113	.139-.140
48	7,900-7,850	22.52-22.52	112.0-111	.135-.134
49	7,900-7,850	22.75-22.75	111.0-110	.131-.131
50	7,900-7,800	22.98-22.98	109.4-108	.128-.126
55	7,900-7,800	24.10-24.10	104.3-103	.112-.110
60	7,900-7,825	25.16-25.17	100.0-99	.100-.098
65	7,800-7,850	25.79-26.20	95.0-97	.088-.088
70	7,800-7,825	26.75-27.19	91.0-93	.079-.080
75	7,800-7,825	27.71-28.15	88.0-90	.072-.072
80	7,700-7,825	28.16-29.07	84.0-87	.066-.066
85	7,600-7,800	29.04-29.96	81.0-84	.059-.060
90	7,400-7,725	29.39-30.83	77.0-81	.054-.054
95	7,400-7,675	30.19-31.68	74.0-78	.050-.049
100	7,200-7,650	30.50-32.50	71.0-76	.046-.046

¹ Allowance made for doffing, etc.

Range of Production of Ring Warp Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,950-5,075	9.50 -	166.0-170.0	2.278-2.323
5	5,450-5,550	10.62 -	163.2-167.0	1.791-1.822
6	5,900-6,000	11.63 -	161.4-165.0	1.477-1.513
7	6,300-6,450	12.56 -	159.6-163.0	1.252-1.282
8	6,650-6,725	13.43 -	157.6-160.0	1.082-1.103
9	7,000-7,100	14.25 -	156.3-158.0	.954-.968
10	7,250-7,250	15.02 -	153.6-154.0	.853-.859
11	7,500-7,550	15.75 -	151.5-152.0	.765-.771
12	7,750-7,775	16.45 -	150.0-150.0	.694-.697
13	7,950-8,000	17.12 -	147.8-149.0	.631-.640
14	8,150-8,175	17.77 -	145.9-146.0	.579-.582
15	8,300-8,325	18.39 -	143.6-144.0	.632-.535
16	8,450-8,475	19.00 -	141.5-142.0	.497-.495
17	8,600-8,625	19.58 -	139.7-140.0	.468-.460
18	8,750-8,750	20.15 -	138.1-138.0	.429-.427
19	8,850-8,850	20.70 -	136.0-136.0	.398-.400
20	8,950-8,925	21.24 -	134.0-134.0	.376-.378
21	9,050-9,050	21.76 -	132.3-132.0	.334-.365
22	9,100-9,100	22.27 -	130.0-130.0	.332-.333
23	9,150-9,175	22.78 -	127.8-128.0	.312-.314
24	9,200-9,225	23.27 -	125.8-126.0	.294-.297
25	9,300-9,300	23.75 -	124.6-125.0	.280-.285
26	9,400-9,425	24.22 -	123.7-124.0	.270-.272
27	9,450-9,475	24.68 -	121.9-122.0	.256-.258
28	9,500-9,475	25.13 -	120.2-120.0	.244-.245
29	9,500-9,500	25.58 -	118.2-118.0	.231-.232
30	9,500-9,550	26.02 -	116.2-117.0	.220-.225
31	9,500-9,550	26.44 -	114.4-115.0	.210-.214
32	9,500-9,550	26.87 -	112.5-113.0	.200-.204
33	9,550-9,600	27.28 -	111.4-112.0	.192-.195
34	9,600-9,650	27.69 -	110.3-111.0	.184-.188
35	9,600-9,675	28.10 -	108.7-110.0	.178-.181
36	9,700-9,675	28.50 -	108.3-108.0	.173-.173
37	9,700-9,700	28.89 -	106.8-107.0	.166-.186
38	9,800-9,700	29.28 -	106.5-106.0	.161 -
39	9,800-9,700	29.66 -	105.2-105.0	.155 -
40	9,700-9,700	29.07 -	106.2-104.0	.152 -
41	9,700-9,700	29.44 -	104.9-104.0	.147 -
42	9,675-9,700	29.80-29.9	103.0-103.6	.142-.144
43	9,675-9,700	30.13-30.2	102.0-102.5	.137-.140
44	9,675-9,700	30.49-30.5	101.0-101.2	.132-.135
45	9,675-9,700	30.82-30.8	100.0-100.2	.129-.131
46	9,681-9,700	31.18-28.8	107.0-99.0	.125-.137
47	9,690-9,700	31.51-29.1	106.0-98.0	.121-.133
48	9,698-9,700	31.83-29.4	105.0-97.0	.117-.129
49	9,736-9,700	32.20-29.8	104.0-95.9	.114-.125
50	9,740-9,700	32.52-30.1	103.0-94.9	.110-.122
55	9,896-9,600	33.34-31.5	100.0-91.6	.098-.107
60	9,544-9,600	34.83-31.0	98.0-87.7	.087-.098
65	9,640-9,600	36.27-32.3	95.0-84.2	.077-.088
70	9,577-9,600	37.62-33.5	91.0-81.2	.069-.079
75	9,456-9,500	38.10-34.6	87.0-79.4	.063-.070
80	9,447-9,500	39.33-35.8	84.0-76.9	.058-.064
85	9,274-9,100	39.64-36.9	80.0-74.0	.052-.057
90	9,073-9,100	40.76-38.0	76.0-71.0	.048-.051
95	8,944-9,000	41.83-39.0	73.0-68.5	.044-.047
100	8,796-8,700	42.00-40.0	70.0-65.9	.040-.042

¹ Allowance made for doffing, etc.

Range of Production of Ring Hosiery Yarns

[Twist Multiplier — 3.00]

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	3,393-3,400	6.00	180-180.3	2.359-.2.400
5	3,700-3,711	6.71	176-175.4	1.836-1.872
6	3,995-4,000	7.35	173-173.2	1.511-1.537
7	4,191-4,200	7.94	168-168.3	1.258-1.280
8	4,396-4,400	8.49	165-164.9	1.092-1.112
9	4,609-4,600	9.00	163-162.6	.957-.976
10	4,800-4,800	9.49	161-161.0	.853-.878
11	5,001-5,000	9.95	160-159.9	.770-.793
12	5,157-5,150	10.39	158-157.7	.704-.718
13	5,337-5,350	10.82	157-157.4	.649-.666
14	5,499-5,500	11.22	156-156.3	.598-.614
15	5,658-5,650	11.62	155-154.7	.553-.570
16	5,806-5,800	12.00	154-153.8	.515-.530
17	5,907-5,900	12.37	152-151.7	.484-.493
18	5,999-6,000	12.73	150-150.0	.446-.459
19	6,077-6,100	13.08	148-148.4	.423-.435
20	6,109-6,100	13.42	145-144.6	.396-.404
21	6,177-6,100	13.75	143-141.2	.369-.380
22	6,188-6,200	14.07	140-140.2	.349-.355
23	6,193-6,200	14.39	137-137.1	.327-.332
24	6,235-6,200	14.70	135-134.2	.310-.313
25	6,267-6,300	15.00	133-133.7	.297-.296
26	6,297-6,300	15.30	131-131.0	.283-.284
27	6,318-6,300	15.59	129-128.6	.267-.269
28	6,332-6,300	15.87	127-126.3	.253-.259
29	6,342-6,300	16.16	125-124.0	.240-.246
30	6,400-6,400	16.43	124-123.9	.232-.236

¹ Allowance made for doffing, etc.

Roving Table

For numbering by weight, in grains, of 12 yards; and showing twist per inch

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.70	.80	.90	1.00	1.10	1.20	1.25	1.30
500.00	.20	.447	.31	.36	.40	.45	.49	.54	.56	.58
400.00	.25	.500	.35	.40	.45	.50	.55	.60	.63	.65
333.33	.30	.548	.38	.44	.49	.55	.60	.66	.69	.71
285.71	.35	.592	.41	.47	.53	.59	.65	.71	.74	.77
250.00	.40	.632	.44	.50	.57	.63	.69	.76	.79	.82
222.22	.45	.671	.47	.54	.60	.67	.74	.81	.84	.87
200.00	.50	.707	.49	.57	.64	.71	.78	.85	.88	.92
181.82	.55	.742	.52	.59	.67	.74	.82	.89	.93	.96
166.67	.60	.775	.54	.62	.70	.78	.85	.93	.97	1.01
153.85	.65	.806	.56	.64	.73	.81	.89	.97	1.01	1.05
142.86	.70	.837	.59	.67	.75	.84	.92	1.00	1.05	1.09
133.33	.75	.866	.61	.69	.78	.87	.95	1.04	1.08	1.13
125.00	.80	.894	.63	.72	.80	.89	.98	1.07	1.12	1.16
117.65	.85	.922	.65	.74	.83	.92	1.01	1.11	1.15	1.20
111.11	.90	.949	.66	.76	.85	.95	1.04	1.14	1.19	1.23
105.26	.95	.975	.68	.78	.88	.98	1.07	1.17	1.22	1.27
100.00	1.00	1.000	.70	.80	.90	1.00	1.10	1.20	1.25	1.30
95.25	1.05	1.025	.72	.82	.92	1.03	1.13	1.23	1.28	1.33
90.91	1.10	1.049	.73	.84	.94	1.05	1.15	1.26	1.31	1.36
86.96	1.15	1.073	.75	.86	.97	1.07	1.18	1.29	1.34	1.39
83.33	1.20	1.095	.77	.88	.99	1.10	1.20	1.31	1.37	1.42
80.00	1.25	1.118	.78	.89	1.01	1.12	1.23	1.34	1.40	1.45
76.92	1.30	1.140	.80	.91	1.03	1.14	1.25	1.37	1.43	1.48
74.07	1.35	1.162	.81	.93	1.05	1.16	1.28	1.39	1.45	1.51
71.43	1.40	1.183	.83	.95	1.06	1.18	1.30	1.42	1.48	1.54
69.00	1.45	1.204	.84	.96	1.08	1.20	1.32	1.44	1.51	1.57
66.67	1.50	1.225	.86	.98	1.10	1.23	1.35	1.47	1.53	1.59
64.52	1.55	1.245	.87	1.00	1.12	1.25	1.37	1.49	1.56	1.62
62.50	1.60	1.265	.89	1.01	1.14	1.27	1.39	1.52	1.58	1.64
60.61	1.65	1.285	.90	1.03	1.16	1.29	1.41	1.54	1.61	1.67
58.82	1.70	1.304	.91	1.04	1.17	1.30	1.43	1.56	1.63	1.70
57.14	1.75	1.323	.93	1.06	1.19	1.32	1.46	1.59	1.65	1.72
55.56	1.80	1.342	.94	1.07	1.21	1.34	1.48	1.61	1.68	1.74
54.05	1.85	1.360	.95	1.09	1.22	1.36	1.50	1.63	1.70	1.77
52.63	1.90	1.378	.96	1.10	1.24	1.38	1.52	1.65	1.72	1.79
51.27	1.95	1.397	.98	1.12	1.26	1.40	1.54	1.68	1.75	1.82
50.00	2.00	1.414	.99	1.13	1.27	1.41	1.56	1.70	1.77	1.84
48.78	2.05	1.432	1.00	1.15	1.29	1.43	1.58	1.72	1.79	1.86
47.62	2.10	1.449	1.01	1.16	1.30	1.45	1.59	1.74	1.81	1.88
46.51	2.15	1.467	1.03	1.17	1.32	1.47	1.61	1.76	1.83	1.91
45.45	2.20	1.483	1.04	1.19	1.33	1.48	1.63	1.78	1.85	1.93
44.44	2.25	1.500	1.05	1.20	1.35	1.50	1.65	1.80	1.88	1.95
43.48	2.30	1.515	1.06	1.21	1.36	1.52	1.67	1.82	1.89	1.97
42.55	2.35	1.535	1.07	1.23	1.38	1.54	1.69	1.84	1.92	2.00
41.67	2.40	1.549	1.08	1.24	1.39	1.55	1.70	1.86	1.94	2.01
40.82	2.45	1.565	1.10	1.25	1.41	1.57	1.72	1.88	1.96	2.03
40.00	2.50	1.583	1.11	1.27	1.42	1.58	1.74	1.90	1.98	2.06
39.22	2.55	1.597	1.12	1.28	1.44	1.60	1.76	1.92	2.00	2.08
38.46	2.60	1.611	1.13	1.29	1.45	1.61	1.77	1.93	2.01	2.09
37.73	2.65	1.630	1.14	1.30	1.47	1.63	1.79	1.96	2.04	2.12
37.04	2.70	1.643	1.15	1.31	1.48	1.64	1.81	1.97	2.05	2.14
36.36	2.75	1.658	1.16	1.33	1.49	1.66	1.82	1.99	2.07	2.16

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.80	.90	1.00	1.10	1.20	1.25	1.30	1.35
35.71	2.80	1.673	1.34	1.51	1.67	1.84	2.01	2.09	2.17	2.26
35.09	2.85	1.688	1.35	1.52	1.69	1.86	2.03	2.11	2.19	2.28
34.48	2.90	1.703	1.36	1.53	1.70	1.87	2.04	2.13	2.21	2.30
33.91	2.95	1.718	1.37	1.55	1.72	1.89	2.06	2.15	2.23	2.32
33.33	3.00	1.732	1.39	1.56	1.73	1.91	2.08	2.17	2.25	2.34
32.79	3.05	1.746	1.40	1.57	1.75	1.92	2.10	2.18	2.27	2.36
32.26	3.10	1.760	1.41	1.58	1.76	1.94	2.11	2.20	2.29	2.38
31.76	3.15	1.775	1.42	1.60	1.78	1.95	2.13	2.22	2.31	2.40
31.25	3.20	1.789	1.43	1.61	1.79	1.97	2.15	2.24	2.33	2.42
30.78	3.25	1.803	1.44	1.62	1.80	1.98	2.16	2.25	2.34	2.43
30.30	3.30	1.817	1.45	1.64	1.82	2.00	2.18	2.27	2.36	2.45
29.86	3.35	1.831	1.46	1.65	1.83	2.01	2.20	2.29	2.38	2.47
29.41	3.40	1.844	1.48	1.66	1.84	2.02	2.21	2.31	2.40	2.49
28.99	3.45	1.857	1.49	1.67	1.86	2.04	2.23	2.32	2.41	2.51
28.57	3.50	1.870	1.50	1.68	1.87	2.06	2.24	2.34	2.43	2.52
28.17	3.55	1.884	1.51	1.70	1.88	2.07	2.26	2.36	2.45	2.54
27.78	3.60	1.897	1.52	1.71	1.90	2.09	2.28	2.37	2.47	2.56
27.40	3.65	1.910	1.53	1.72	1.91	2.10	2.29	2.39	2.48	2.58
27.03	3.70	1.924	1.54	1.73	1.92	2.12	2.31	2.41	2.50	2.60
26.67	3.75	1.936	1.55	1.74	1.94	2.13	2.32	2.42	2.52	2.61
26.32	3.80	1.950	1.56	1.76	1.95	2.15	2.34	2.44	2.54	2.63
25.98	3.85	1.963	1.57	1.77	1.96	2.16	2.36	2.45	2.55	2.65
25.64	3.90	1.975	1.58	1.78	1.98	2.17	2.37	2.47	2.57	2.67
25.32	3.95	1.987	1.59	1.79	1.99	2.19	2.38	2.48	2.58	2.68
25.00	4.00	2.000	1.60	1.80	2.00	2.20	2.40	2.50	2.60	2.70
24.69	4.05	2.012	1.61	1.81	2.01	2.21	2.41	2.52	2.62	2.72
24.39	4.10	2.025	1.62	1.82	2.03	2.23	2.43	2.53	2.63	2.73
24.10	4.15	2.038	1.63	1.83	2.04	2.24	2.45	2.55	2.65	2.75
23.81	4.20	2.049	1.64	1.84	2.05	2.25	2.46	2.56	2.66	2.77
23.53	4.25	2.063	1.65	1.86	2.06	2.27	2.48	2.58	2.68	2.79
23.26	4.30	2.074	1.66	1.87	2.07	2.28	2.49	2.59	2.70	2.80
23.00	4.35	2.085	1.67	1.88	2.09	2.29	2.50	2.61	2.71	2.81
22.73	4.40	2.098	1.68	1.89	2.10	2.31	2.52	2.62	2.73	2.83
22.48	4.45	2.110	1.69	1.90	2.11	2.32	2.53	2.64	2.74	2.85
22.22	4.50	2.121	1.70	1.91	2.12	2.33	2.55	2.65	2.76	2.86
21.98	4.55	2.133	1.71	1.92	2.13	2.35	2.56	2.67	2.77	2.88
21.74	4.60	2.145	1.72	1.93	2.15	2.36	2.57	2.68	2.79	2.90
21.51	4.65	2.156	1.72	1.94	2.16	2.37	2.59	2.70	2.80	2.91
21.28	4.70	2.167	1.73	1.95	2.17	2.38	2.60	2.71	2.82	2.93
21.05	4.75	2.179	1.74	1.96	2.18	2.40	2.61	2.72	2.83	2.94
20.83	4.80	2.191	1.75	1.97	2.19	2.41	2.63	2.74	2.85	2.96
20.62	4.85	2.202	1.76	1.98	2.20	2.42	2.64	2.75	2.86	2.97
20.41	4.90	2.213	1.77	1.99	2.21	2.43	2.66	2.77	2.88	2.99
20.20	4.95	2.225	1.78	2.00	2.23	2.45	2.67	2.78	2.89	3.00
20.00	5.00	2.236	1.79	2.01	2.24	2.46	2.68	2.80	2.91	3.02
19.80	5.05	2.247	1.80	2.02	2.25	2.47	2.70	2.81	2.92	3.03
19.61	5.10	2.259	1.81	2.03	2.26	2.48	2.71	2.82	2.94	3.05
19.42	5.15	2.269	1.82	2.04	2.27	2.50	2.72	2.84	2.95	3.06
19.23	5.20	2.280	1.82	2.05	2.28	2.51	2.74	2.85	2.96	3.08
19.05	5.25	2.291	1.83	2.06	2.29	2.52	2.75	2.86	2.98	3.09
18.87	5.30	2.302	1.84	2.07	2.30	2.53	2.76	2.88	2.99	3.11
18.69	5.35	2.313	1.85	2.08	2.31	2.54	2.78	2.89	3.01	3.12

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.00	1.10	1.20	1.25	1.30	1.35	1.40	1.45
18.52	5.40	2.324	2.32	2.56	2.79	2.91	3.02	3.14	3.25	3.37
18.35	5.45	2.334	2.33	2.57	2.80	2.92	3.03	3.15	3.27	3.38
18.18	5.50	2.345	2.35	2.58	2.81	2.93	3.05	3.17	3.28	3.40
18.02	5.55	2.356	2.36	2.59	2.83	2.95	3.06	3.18	3.30	3.42
17.86	5.60	2.366	2.37	2.60	2.84	2.96	3.08	3.19	3.31	3.43
17.70	5.65	2.377	2.38	2.61	2.85	2.97	3.09	3.21	3.33	3.45
17.54	5.70	2.388	2.39	2.63	2.87	2.99	3.10	3.22	3.34	3.46
17.36	5.75	2.398	2.40	2.64	2.88	3.00	3.12	3.24	3.36	3.48
17.24	5.80	2.408	2.41	2.65	2.89	3.01	3.13	3.25	3.37	3.49
17.09	5.85	2.418	2.42	2.66	2.90	3.02	3.14	3.26	3.39	3.51
16.95	5.90	2.429	2.43	2.67	2.91	3.04	3.16	3.28	3.40	3.52
16.81	5.95	2.439	2.44	2.68	2.93	3.05	3.17	3.29	3.41	3.54
16.67	6.00	2.449	2.45	2.69	2.94	3.06	3.18	3.31	3.43	3.55
16.39	6.10	2.470	2.47	2.72	2.96	3.09	3.21	3.33	3.46	3.58
16.27	6.15	2.480	2.48	2.73	2.98	3.10	3.22	3.35	3.47	3.60
16.03	6.25	2.500	2.50	2.75	3.00	3.13	3.25	3.38	3.50	3.63
15.87	6.30	2.510	2.51	2.76	3.01	3.14	3.26	3.39	3.52	3.64
15.62	6.40	2.530	2.53	2.78	3.04	3.16	3.29	3.42	3.54	3.67
15.38	6.50	2.550	2.55	2.81	3.06	3.19	3.32	3.44	3.57	3.70
15.15	6.60	2.569	2.57	2.83	3.08	3.21	3.34	3.47	3.60	3.73
14.93	6.70	2.588	2.59	2.85	3.11	3.24	3.36	3.49	3.62	3.75
14.82	6.75	2.597	2.60	2.86	3.12	3.25	3.38	3.51	3.64	3.77
14.71	6.80	2.608	2.61	2.87	3.13	3.26	3.39	3.52	3.65	3.78
14.49	6.90	2.627	2.63	2.89	3.15	3.28	3.42	3.55	3.68	3.81
14.29	7.00	2.646	2.65	2.91	3.18	3.31	3.44	3.58	3.70	3.84
14.08	7.10	2.665	2.67	2.93	3.20	3.33	3.46	3.60	3.73	3.86
14.00	7.15	2.674	2.67	2.94	3.21	3.34	3.48	3.61	3.74	3.88
13.81	7.25	2.693	2.69	2.96	3.23	3.37	3.50	3.64	3.77	3.90
13.70	7.30	2.702	2.70	2.97	3.24	3.38	3.51	3.65	3.78	3.92
13.51	7.40	2.720	2.72	2.99	3.26	3.40	3.53	3.67	3.81	3.94
13.33	7.50	2.739	2.74	3.01	3.29	3.42	3.56	3.70	3.83	3.97
13.16	7.60	2.759	2.76	3.03	3.31	3.44	3.58	3.72	3.86	4.00
12.99	7.70	2.775	2.78	3.05	3.33	3.47	3.61	3.75	3.89	4.02
12.91	7.75	2.784	2.78	3.06	3.34	3.48	3.62	3.76	3.90	4.04
12.82	7.80	2.793	2.79	3.07	3.35	3.49	3.63	3.77	3.91	4.05
12.66	7.90	2.811	2.81	3.09	3.37	3.51	3.65	3.79	3.94	4.08
12.50	8.00	2.828	2.83	3.11	3.39	3.54	3.68	3.82	3.96	4.10
12.13	8.25	2.872	2.87	3.16	3.45	3.59	3.73	3.88	4.02	4.16
11.76	8.50	2.915	2.92	3.21	3.50	3.64	3.79	3.94	4.08	4.23
11.44	8.75	2.958	2.96	3.25	3.55	3.70	3.85	4.00	4.14	4.29
11.11	9.00	3.000	3.00	3.30	3.60	3.75	3.90	4.05	4.20	4.35
10.82	9.25	3.041	3.04	3.35	3.65	3.80	3.95	4.11	4.26	4.41
10.53	9.50	3.082	3.08	3.39	3.70	3.85	4.00	4.16	4.31	4.47
10.27	9.75	3.122	3.12	3.43	3.75	3.90	4.06	4.21	4.37	4.53
10.00	10.00	3.162	3.16	3.48	3.79	3.95	4.11	4.27	4.43	4.58
9.78	10.25	3.202	3.20	3.52	3.84	4.00	4.16	4.32	4.48	4.64
9.55	10.50	3.240	3.24	3.56	3.89	4.05	4.21	4.37	4.54	4.71
9.32	10.75	3.278	3.28	3.61	3.93	4.10	4.26	4.43	4.59	4.75
9.09	11.00	3.316	3.32	3.65	3.98	4.15	4.31	4.48	4.64	4.81
8.90	11.25	3.355	3.36	3.69	4.03	4.19	4.36	4.53	4.70	4.86
8.71	11.50	3.391	3.39	3.73	4.07	4.24	4.41	4.58	4.75	4.92
8.52	11.75	3.438	3.43	3.77	4.11	4.28	4.46	4.63	4.80	4.97

Roving Table—(Concluded)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.10	1.20	1.25	1.30	1.35	1.40	1.45	1.50
8.33	12.00	3.464	3.81	4.16	4.33	4.50	4.68	4.85	5.02	5.20
8.16	12.25	3.500	3.85	4.20	4.38	4.55	4.73	4.90	5.08	5.25
8.00	12.50	3.535	3.89	4.24	4.42	4.60	4.77	4.95	5.13	5.30
7.84	12.75	3.570	3.93	4.28	4.46	4.64	4.82	5.00	5.18	5.36
7.69	13.00	3.605	3.97	4.33	4.51	4.69	4.87	5.05	5.23	5.41
7.55	13.25	3.640	4.00	4.37	4.55	4.73	4.91	5.10	5.28	5.46
7.41	13.50	3.674	4.04	4.41	4.59	4.78	4.96	5.14	5.33	5.51
7.27	13.75	3.709	4.08	4.45	4.64	4.82	5.01	5.19	5.38	5.56
7.14	14.00	3.745	4.12	4.49	4.68	4.88	5.06	5.24	5.43	5.62
7.02	14.25	3.774	4.15	4.53	4.72	4.91	5.09	5.28	5.47	5.66
6.90	14.50	3.810	4.19	4.57	4.76	4.95	5.14	5.33	5.52	5.72
6.78	14.75	3.841	4.23	4.61	4.80	4.99	5.19	5.38	5.57	5.76
6.67	15.00	3.873	4.26	4.65	4.84	5.03	5.23	5.42	5.62	5.81
6.56	15.25	3.905	4.30	4.69	4.88	5.08	5.27	5.47	5.66	5.86
6.45	15.50	3.937	4.33	4.73	4.92	5.12	5.31	5.51	5.71	5.91
6.35	15.75	3.969	4.37	4.76	4.96	5.16	5.36	5.56	5.76	5.95
6.25	16.00	4.000	4.40	4.80	5.00	5.20	5.40	5.60	5.80	6.00
6.16	16.25	4.032	4.44	4.84	5.04	5.24	5.44	5.64	5.85	6.05
6.06	16.50	4.062	4.47	4.87	5.08	5.28	5.48	5.69	5.89	6.09
5.97	16.75	4.092	4.50	4.91	5.12	5.32	5.52	5.73	5.93	6.14
5.88	17.00	4.123	4.54	4.95	5.15	5.36	5.57	5.77	5.98	6.18
5.80	17.25	4.152	4.57	4.98	5.19	5.40	5.61	5.81	6.02	6.23
5.72	17.50	4.183	4.60	5.02	5.23	5.44	5.65	5.86	6.07	6.27
5.64	17.75	4.212	4.63	5.05	5.27	5.48	5.69	5.90	6.11	6.32
5.56	18.00	4.242	4.67	5.09	5.30	5.51	5.73	5.94	6.15	6.36
5.49	18.25	4.272	4.70	5.13	5.34	5.55	5.78	5.98	6.19	6.41
5.41	18.50	4.301	4.73	5.16	5.38	5.59	5.81	6.02	6.24	6.45
5.34	18.75	4.330	4.76	5.20	5.41	5.63	5.85	6.06	6.28	6.49
5.26	19.00	4.358	4.79	5.23	5.45	5.67	5.88	6.10	6.32	6.54
5.20	19.25	4.387	4.82	5.26	5.48	5.70	5.92	6.14	6.36	6.58
5.13	19.50	4.416	4.86	5.30	5.52	5.74	5.96	6.18	6.40	6.62
5.07	19.75	4.444	4.89	5.33	5.56	5.78	6.00	6.22	6.44	6.67
5.00	20.00	4.472	4.92	5.37	5.59	5.81	6.04	6.26	6.48	6.71
4.94	20.25	4.500	4.95	5.40	5.63	5.85	6.08	6.30	6.53	6.75
4.88	20.50	4.527	4.98	5.43	5.66	5.89	6.11	6.34	6.56	6.79
4.82	20.75	4.555	5.01	5.47	5.69	5.92	6.15	6.38	6.60	6.83
4.76	21.00	4.582	5.04	5.50	5.73	5.96	6.19	6.41	6.64	6.87
4.71	21.25	4.609	5.07	5.53	5.76	5.99	6.22	6.45	6.68	6.91
4.66	21.50	4.637	5.10	5.56	5.80	6.03	6.26	6.49	6.72	6.96
4.60	21.75	4.664	5.13	5.60	5.83	6.06	6.30	6.53	6.76	7.00
4.55	22.00	4.690	5.16	5.63	5.86	6.10	6.33	6.57	6.80	7.04
4.50	22.25	4.717	5.19	5.66	5.90	6.13	6.37	6.60	6.84	7.08
4.45	22.50	4.743	5.22	5.69	5.93	6.17	6.40	6.64	6.88	7.11
4.40	22.75	4.769	5.25	5.72	5.96	6.20	6.44	6.68	6.92	7.15
4.35	23.00	4.796	5.28	5.76	6.00	6.23	6.47	6.71	6.95	7.19
4.31	23.25	4.821	5.30	5.79	6.03	6.27	6.51	6.75	6.99	7.23
4.26	23.50	4.848	5.33	5.82	6.06	6.30	6.54	6.79	7.03	7.27
4.22	23.75	4.873	5.36	5.85	6.09	6.33	6.58	6.82	7.07	7.31
4.17	24.00	4.899	5.39	5.88	6.12	6.37	6.61	6.86	7.10	7.35
4.13	24.25	4.924	5.42	5.91	6.16	6.40	6.64	6.89	7.14	7.39
4.09	24.50	4.949	5.44	5.94	6.19	6.43	6.68	6.93	7.18	7.42
4.00	25.00	5.000	5.50	6.00	6.25	6.50	6.75	7.00	7.25	7.50

Conversion Table of Cotton Yarn Numbers

Metric Number	English Number	French Number	Austrian Number	Netherlands Number
1.	0.59	0.5	0.483	0.651
1.694	1.	0.8475	0.818	1.103
2.	1.18	1.	0.966	1.302
2.07	1.222	1.035	1.	1.3478
1.535	0.90629	.768	.74193	1.

Spinning Frame Production

To find 100 per cent Production per Spindle, in Pounds, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840 \times \text{No. of Yarn}} = \text{Lbs. per spindle.}$$

EXAMPLE:

$$\frac{3.1416 \times 90 \times 60 \times 54}{36 \times 840 \times 52} = .582 \text{ Lbs. per spindle.}$$

Roving Frame Production

To find 100 per cent Production of Roving Frames, in Hanks, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840} = \text{Hanks per spindle.}$$

EXAMPLE: Assume speed of front roll 80 r. p. m.

Assume Circum. of front roll 3.927 inches.

$$\frac{3.927 \times 80 \times 60 \times 54}{36 \times 840} = 33.66 \text{ Hanks per spindle.}$$

Yarn Organizations

Courtesy W. A. Graham Clark

Yarn Number	Lap Ounce Per Yard	CARD		DRAW-FRAME		SLUBBER		INTER-MEDIATE			FINE FRAME			JACK FRAME			SPINNING		
		Draft	Sliver Grains	Sliver Grains	Sliver Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft
6	16	93	75	75	.111	1	3.6	.40	2	5.	1.00	-	-	-	-	-	-	1	6.
8	16	-	75	75	.111	1	4.5	.50	2	5.	1.25	-	-	-	-	-	-	1	6.4
10	14	94	65	65	.128	1	3.9	.50	2	5.3	1.33	-	-	-	-	-	-	1	7.5
12	14	-	65	65	.128	1	4.7	.60	2	5.3	1.60	-	-	-	-	-	-	1	7.5
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	2	9.6
14	14	-	65	65	.128	1	4.7	.60	2	5.3	1.60	-	-	-	-	-	-	1	8.8
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	2	11.2
16	14	-	65	65	.128	1	4.7	.60	2	6.	1.80	-	-	-	-	-	-	1	8.8
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	2	10.6
18	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	7.2
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	2	12.0
20	13	95	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.0
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	10.0
22	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.8
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	11.0
24	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.0
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	12.0
26	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	1	8.7
-	13	-	60	65	.128	1	4.7	.60	2	5.	1.50	2	6.	4.50	-	-	-	2	11.6
28	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	-	-	1	8.0
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	10.2
30	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	-	-	1	8.6
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	10.9
32	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	8.0
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	11.6
34	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	8.5
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	12.4
36	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	9.0
-	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.1
38	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	9.5
-	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.7
40	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	6.4	8.0	2	10.0
50	12	117	45	60	.139	1	3.6	.50	2	4.	1.00	2	6.	3.00	2	6.7	10.	2	10.0
60	12	-	45	60	.139	1	4.3	.60	2	5.	1.50	2	5.3	4.00	2	6.0	12.	2	10.0
70	12	-	45	60	.139	1	4.3	.60	2	5.	1.50	2	6.	4.50	2	6.2	14.	2	10.0
80	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	5.6	5.00	2	6.4	16.	2	10.0
90	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	2	6.5	18.	2	10.0
100	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	6.4	5.75	2	7.0	20.	2	10.0
110	11	137	35	50	.167	1	4.8	.80	2	5.5	2.25	2	6.	6.76	2	6.5	22.	2	10.0
120	11	-	35	50	.167	1	4.8	.80	2	5.5	2.25	2	6.	6.75	2	7.1	24.	2	10.0

Square Root of the Numbers or Counts, from One to Two Hundred Hanks in the Pound, with the Twist per Inch for Different Kinds of Yarns

The heavy figures opposite No. 1 show the multipliers for the square root of all numbers throughout the tables.

Counts or Numbers	Square Root	Ordinary Warp Twist	Low Warp Twist	Ordinary Mule Twist	Filling Twist	Ordinary Hosiery Twist	Medium Hosiery Twist
1	1.00	4.75	4.20	3.75	3.25	2.75	2.50
2	1.41	6.72	5.65	5.30	4.60	3.88	3.53
3	1.73	8.23	6.92	6.49	5.62	4.76	4.33
4	2.00	9.50	8.00	7.50	6.50	5.50	5.00
5	2.23	10.62	8.94	8.37	7.26	6.14	5.59
6	2.44	11.64	9.79	9.18	7.96	6.73	6.12
7	2.64	12.57	10.58	9.92	8.59	7.27	6.61
8	2.82	13.44	11.31	10.50	9.19	7.77	7.07
9	3.00	14.25	12.00	11.25	9.75	8.25	7.50
10	3.16	15.02	12.64	11.85	10.27	8.79	7.90
11	3.31	15.75	13.26	12.43	10.77	9.12	8.29
12	3.46	16.45	13.85	12.99	11.25	9.52	8.66
14	3.74	17.77	14.96	14.03	12.16	10.28	9.35
16	4.00	19.00	16.00	15.00	13.00	11.00	10.00
18	4.24	20.15	16.97	15.90	13.78	11.66	10.60
20	4.47	21.24	17.88	16.77	14.53	12.29	11.18
22	4.69	22.28	18.76	17.58	15.24	12.89	11.73
24	4.89	23.27	19.59	18.37	15.92	13.47	12.25
26	5.09	24.22	20.39	19.11	16.57	14.02	12.75
28	5.29	25.13	21.16	19.84	17.19	14.55	13.23
30	5.47	26.02	21.90	20.53	17.80	15.06	13.69
35	5.91	28.10	23.66	22.18	19.22	16.27	14.79
40	6.32	30.04	25.29	23.71	20.55	17.39	15.81
45	6.70	31.86	26.83	25.15	21.80	18.44	16.77
50	7.07	33.59	28.28	26.51	22.98	19.44	17.68
55	7.41	35.23	29.66	27.81	24.10	20.39	18.54
60	7.74	36.79	30.98	29.04	25.17	21.30	19.36
65	8.06	38.30	32.24	30.23	26.20	22.17	
70	8.36	39.74	33.46	31.37	27.19	23.00	
75	8.66	41.14	34.64	32.47	28.14	23.81	
80	8.94	42.49	35.77	33.54	29.06	24.59	
85	9.21	43.79	36.87	34.57	29.96	25.35	
90	9.48	45.06	37.94	35.47	30.83	26.08	
95	9.74	46.30	38.98	36.55	31.67	26.80	
100	10.00	47.50	40.00	37.50	32.50	27.50	
110	10.48	49.82	41.95	39.33	34.08	28.84	
120	10.95	52.03	43.81	41.07	35.60	30.12	
130	11.40	54.16	45.60	42.75	37.05	31.35	
140	11.83	56.20	47.32	44.37	38.47	32.54	
150	12.24	58.04	48.98	45.92	39.80	33.68	
160	12.64	60.04	50.59	47.43	41.10	34.78	
170	13.03	61.89	52.15	48.89	42.37	35.85	
180	13.41	63.70	53.66	50.31	43.60	36.89	
190	13.78	65.46	55.13	51.69	44.79	37.90	
200	14.14	67.17	56.56	53.03	45.96	38.89	

Comparison of English and French Counts of Cotton Yarn

English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts
1	0.847	17	14.40	46	38.96	78	66.07	150	127.05
2	1.693	18	15.25	48	40.66	80	67.76	160	135.52
3	2.540	19	16.09	50	42.35	82	69.45	170	143.99
4	3.388	20	16.94	52	44.04	84	71.15	180	152.46
5	4.235	22	18.63	54	45.74	86	72.84	190	160.93
6	5.082	24	20.33	56	47.43	88	74.54	200	169.40
7	5.929	26	22.02	58	49.13	90	76.23	210	177.87
8	6.776	28	23.72	60	50.82	92	77.92	220	186.34
9	7.623	30	25.41	62	52.51	94	79.62	230	194.81
10	8.470	32	27.10	64	54.21	96	81.31	240	203.28
11	9.313	34	28.80	66	55.90	98	83.01	250	211.75
12	10.16	36	30.49	68	57.00	100	84.70	260	220.22
13	11.01	38	32.19	70	59.29	110	93.17	270	228.69
14	11.86	40	33.88	72	60.98	120	101.64	280	237.16
15	12.70	42	35.57	74	62.68	130	110.11	290	245.63
16	13.55	44	37.27	76	64.37	140	118.58	300	254.10

Comparison of French and English Counts of Cotton Yarn

French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts
1	1.18	17	20.1	46	54.3	78	92.—	150	177.—
2	2.36	18	21.2	48	56.6	80	94.4	160	189.—
3	3.54	19	22.4	50	59.—	82	96.8	170	201.—
4	4.72	20	23.6	52	61.4	84	99.2	180	212.—
5	5.90	22	26.—	54	63.7	86	101.5	190	224.—
6	7.08	24	28.3	56	66.1	88	103.8	200	236.—
7	8.26	26	30.7	58	68.4	90	106.2	210	247.8
8	9.44	28	33.—	60	70.8	92	108.6	220	260.—
9	10.6	30	35.4	62	73.1	94	110.9	230	271.4
10	11.8	32	37.8	64	75.5	96	113.2	240	283.—
11	13.—	34	40.1	66	77.9	98	115.6	250	295.—
12	14.2	36	42.5	68	80.2	100	118.—	260	307.—
13	15.3	38	44.8	70	82.6	110	130.—	270	318.6
14	16.5	40	47.2	72	84.9	120	141.6	280	330.—
15	17.7	42	49.6	74	87.3	130	153.—	290	342.2
16	18.9	44	51.9	76	89.7	140	165.—	300	354.—

Yarn Table

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
1.	1,000.	.3	81.30	.6	56.82	.9	43.67	.2	35.46
2.	500.	.4	80.65	.7	56.50	23.	43.48	.3	35.34
3.	333.3	.5	80.00	.8	56.18	.1	43.29	.4	35.21
4.	250.0	.6	79.37	.9	55.87	.2	43.10	.5	35.09
5.	200.0	.7	78.74	18.	55.56	.3	42.92	.6	34.97
5.5	181.8	.8	78.12	.1	55.25	.4	42.74	.7	34.84
6.	166.7	.9	77.52	.2	54.95	.5	42.55	.8	34.72
6.5	153.8	13.	76.92	.3	54.64	.6	42.37	.9	34.60
7.	142.9	.1	76.34	.4	54.35	.7	42.19	29.	34.48
7.5	133.3	.2	75.76	.5	54.05	.8	42.02	.1	34.36
8.	125.0	.3	75.19	.6	53.76	.9	41.84	.2	34.25
.1	123.5	.4	74.63	.7	53.48	24.	41.67	.3	34.13
.2	122.0	.5	74.07	.8	53.19	.1	41.49	.4	34.01
.3	120.5	.6	73.53	.9	52.91	.2	41.32	.5	33.90
.4	119.0	.7	72.99	19.	52.63	.3	41.15	.6	33.78
.5	117.6	.8	72.46	.1	52.36	.4	40.98	.7	33.67
.6	116.3	.9	71.94	.2	52.08	.5	40.82	.8	33.56
.7	114.9	14.	71.43	.3	51.81	.6	40.65	.9	33.44
.8	113.6	.1	70.92	.4	51.55	.7	40.49	30.	33.33
.9	112.4	.2	70.42	.5	51.28	.8	40.32	.1	33.22
9.	111.1	.3	69.93	.6	51.02	.9	40.16	.2	33.11
.1	109.9	.4	69.44	.7	50.76	25.	40.00	.3	33.00
.2	108.7	.5	68.97	.8	50.51	.1	39.84	.4	32.89
.3	107.5	.6	68.49	.9	50.25	.2	39.68	.5	32.79
.4	106.4	.7	68.03	20.	50.00	.3	39.53	.6	32.68
.5	105.3	.8	67.57	.1	49.75	.4	39.37	.7	32.57
.6	104.2	.9	67.11	.2	49.50	.5	39.22	.8	32.47
.7	103.1	15.	66.67	.3	49.26	.6	39.06	.9	32.36
.8	102.0	.1	66.23	.4	49.02	.7	38.91	31.	32.26
.9	101.0	.2	65.79	.5	48.78	.8	38.76	.1	32.16
10.	100.0	.3	65.36	.6	48.54	.9	38.61	.2	32.05
.1	99.01	.4	64.94	.7	48.31	26.	38.46	.3	31.95
.2	98.04	.5	64.52	.8	48.08	.1	38.31	.4	31.85
.3	97.09	.6	64.10	.9	47.85	.2	38.17	.5	31.75
.4	96.15	.7	63.69	21.	47.62	.3	38.02	.6	31.65
.5	95.24	.8	63.29	.1	47.33	.4	37.88	.7	31.55
.6	94.34	.9	62.89	.2	47.17	.5	37.74	.8	31.45
.7	93.46	16.	62.50	.3	46.95	.6	37.59	.9	31.35
.8	92.59	.1	62.11	.4	46.73	.7	37.45	32.	31.25
.9	91.74	.2	61.73	.5	46.51	.8	37.31	.1	31.15
11.	90.91	.3	61.35	.6	46.30	.9	37.17	.2	31.06
.1	90.09	.4	60.98	.7	46.08	27.	37.04	.3	30.96
.2	89.29	.5	60.61	.8	45.87	.1	36.90	.4	30.86
.3	88.50	.6	60.24	.9	45.66	.2	36.77	.5	30.77
.4	87.72	.7	59.88	22.	45.45	.3	36.63	.6	30.67
.5	86.96	.8	59.52	.1	45.25	.4	36.50	.7	30.58
.6	86.21	.9	59.17	.2	45.05	.5	36.36	.8	30.49
.7	85.47	17.	58.82	.3	44.84	.6	36.23	.9	30.40
.8	84.75	.1	58.48	.4	44.64	.7	36.10	33.	30.30
.9	84.03	.2	58.14	.5	44.44	.8	35.97	.1	30.21
12.	83.33	.3	57.80	.6	44.25	.9	35.84	.2	30.12
.1	82.64	.4	57.47	.7	44.05	28.	35.71	.3	30.03
.2	81.97	.5	57.14	.8	43.86	.1	35.59	.4	29.94

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	29.85	.8	25.77	.1	22.68	.4	20.24	.7	18.28
.6	29.76	.9	25.71	.2	22.62	.5	20.20	.8	18.25
.7	29.67	39.	25.64	.3	22.57	.6	20.16	.9	18.21
.8	29.59	.1	25.58	.4	22.52	.7	20.12	55.	18.18
.9	29.50	.2	25.51	.5	22.47	.8	20.08	.1	18.15
34.	29.41	.3	25.45	.6	22.42	.9	20.04	.2	18.12
.1	29.33	.4	25.38	.7	22.37	50.	20.00	.3	18.08
.2	29.24	.5	25.32	.8	22.32	.1	19.96	.4	18.05
.3	29.15	.6	25.25	.9	22.27	.2	19.92	.5	18.02
.4	29.07	.7	25.19	45.	22.22	.3	19.88	.6	17.99
.5	28.99	.8	25.13	.1	22.17	.4	19.84	.7	17.95
.6	28.90	.9	25.06	.2	22.12	.5	19.80	.8	17.92
.7	28.82	40.	25.00	.3	22.08	.6	19.76	.9	17.89
.8	28.74	.1	24.94	.4	22.03	.7	19.72	56.	17.86
.9	28.65	.2	24.88	.5	21.98	.8	19.69	.1	17.83
35.	28.57	.3	24.81	.6	21.93	.9	19.65	.2	17.79
.1	28.49	.4	24.75	.7	21.88	51.	19.61	.3	17.76
.2	28.41	.5	24.69	.8	21.83	.1	19.57	.4	17.73
.3	28.33	.6	24.63	.9	21.79	.2	19.53	.5	17.70
.4	28.25	.7	24.57	46.	21.74	.3	19.49	.6	17.67
.5	28.17	.8	24.51	.1	21.69	.4	19.46	.7	17.64
.6	28.09	.9	24.45	.2	21.65	.5	19.42	.8	17.61
.7	28.01	41.	24.39	.3	21.60	.6	19.38	.9	17.57
.8	27.93	.1	24.33	.4	21.55	.7	19.34	57.	17.54
.9	27.86	.2	24.27	.5	21.51	.8	19.31	.1	17.51
36.	27.78	.3	24.21	.6	21.46	.9	19.27	.2	17.48
.1	27.70	.4	24.15	.7	21.41	52.	19.23	.3	17.45
.2	27.62	.5	24.10	.8	21.37	.1	19.19	.4	17.42
.3	27.55	.6	24.04	.9	21.32	.2	19.16	.5	17.39
.4	27.47	.7	23.98	47.	21.28	.3	19.12	.6	17.36
.5	27.40	.8	23.92	.1	21.23	.4	19.08	.7	17.33
.6	27.32	.9	23.87	.2	21.19	.5	19.05	.8	17.30
.7	27.25	42.	23.81	.3	21.14	.6	19.01	.9	17.27
.8	27.17	.1	23.75	.4	21.10	.7	18.98	58.	17.24
.9	27.10	.2	23.70	.5	21.05	.8	18.94	.1	17.21
37.	27.03	.3	23.64	.6	21.01	.9	18.90	.2	17.18
.1	26.95	.4	23.58	.7	20.96	53.	18.87	.3	17.15
.2	26.88	.5	23.53	.8	20.92	.1	18.83	.4	17.12
.3	26.81	.6	23.47	.9	20.88	.2	18.80	.5	17.09
.4	26.74	.7	23.42	48.	20.83	.3	18.76	.6	17.06
.5	26.67	.8	23.36	.1	20.79	.4	18.73	.7	17.04
.6	26.60	.9	23.31	.2	20.75	.5	18.69	.8	17.01
.7	26.53	43.	23.26	.3	20.70	.6	18.66	.9	16.98
.8	26.46	.1	23.20	.4	20.66	.7	18.62	59.	16.95
.9	26.39	.2	23.15	.5	20.62	.8	18.59	.1	16.92
38.	26.32	.3	23.09	.6	20.57	.9	18.55	.2	16.89
.1	26.25	.4	23.04	.7	20.53	54.	18.52	.3	16.86
.2	26.18	.5	22.99	.8	20.49	.1	18.48	.4	16.84
.3	26.11	.6	22.94	.9	20.45	.2	18.45	.5	16.81
.4	26.04	.7	22.88	49.	20.41	.3	18.42	.6	16.78
.5	25.97	.8	22.83	.1	20.37	.4	18.38	.7	16.75
.6	25.91	.9	22.78	.2	20.33	.5	18.35	.8	16.72
.7	25.84	44.	22.73	.3	20.28	.6	18.32	.9	16.69

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
60.	16.67	.3	15.31	.6	14.16	.9	13.18	.2	12.32
.1	16.64	.4	15.29	.7	14.14	76.	13.16	.3	12.30
.2	16.61	.5	15.27	.8	14.12	.1	13.14	.4	12.29
.3	16.58	.6	15.24	.9	14.10	.2	13.12	.5	12.27
.4	16.56	.7	15.22	71.	14.08	.3	13.11	.6	12.25
.5	16.53	.8	15.20	.1	14.06	.4	13.09	.7	12.24
.6	16.50	.9	15.17	.2	14.04	.5	13.07	.8	12.22
.7	16.47	66.	15.15	.3	14.03	.6	13.05	.9	12.21
.8	16.45	.1	15.13	.4	14.01	.7	13.04	82.	12.20
.9	16.42	.2	15.11	.5	13.99	.8	13.02	.1	12.18
61.	16.39	.3	15.08	.6	13.97	.9	13.00	.2	12.17
.1	16.37	.4	15.06	.7	13.95	77.	12.99	.3	12.15
.2	16.34	.5	15.04	.8	13.93	.1	12.97	.4	12.14
.3	16.31	.6	15.02	.9	13.91	.2	12.95	.5	12.12
.4	16.29	.7	14.99	72.	13.89	.3	12.94	.6	12.11
.5	16.26	.8	14.97	.1	13.87	.4	12.92	.7	12.09
.6	16.23	.9	14.95	.2	13.85	.5	12.90	.8	12.08
.7	16.21	67.	14.93	.3	13.83	.6	12.89	.9	12.06
.8	16.19	.1	14.90	.4	13.81	.7	12.87	83.	12.05
.9	16.16	.2	14.88	.5	13.79	.8	12.85	.1	12.03
62.	16.13	.3	14.86	.6	13.77	.9	12.84	.2	12.02
.1	16.10	.4	14.84	.7	13.76	78.	12.82	.3	12.00
.2	16.08	.5	14.81	.8	13.74	.1	12.80	.4	11.99
.3	16.05	.6	14.79	.9	13.72	.2	12.79	.5	11.98
.4	16.03	.7	14.77	73.	13.70	.3	12.77	.6	11.96
.5	16.00	.8	14.75	.1	13.68	.4	12.76	.7	11.95
.6	15.97	.9	14.73	.2	13.66	.5	12.74	.8	11.93
.7	15.95	68.	14.71	.3	13.64	.6	12.72	.9	11.92
.8	15.92	.1	14.68	.4	13.62	.7	12.71	84.	11.90
.9	15.90	.2	14.66	.5	13.61	.8	12.69	.1	11.89
63.	15.87	.3	14.64	.6	13.59	.9	12.67	.2	11.88
.1	15.85	.4	14.62	.7	13.57	79.	12.66	.3	11.86
.2	15.83	.5	14.60	.8	13.55	.1	12.64	.4	11.85
.3	15.80	.6	14.58	.9	13.53	.2	12.63	.5	11.83
.4	15.77	.7	14.56	74.	13.51	.3	12.61	.6	11.82
.5	15.75	.8	14.53	.1	13.50	.4	12.59	.7	11.81
.6	15.72	.9	14.51	.2	13.48	.5	12.58	.8	11.79
.7	15.70	69.	14.49	.3	13.46	.6	12.56	.9	11.78
.8	15.67	.1	14.47	.4	13.44	.7	12.55	85.	11.76
.9	15.65	.2	14.45	.5	13.42	.8	12.53	.1	11.75
64.	15.62	.3	14.43	.6	13.40	.9	12.52	.2	11.74
.1	15.60	.4	14.41	.7	13.39	80.	12.50	.3	11.72
.2	15.58	.5	14.39	.8	13.37	.1	12.48	.4	11.71
.3	15.55	.6	14.37	.9	13.35	.2	12.47	.5	11.70
.4	15.53	.7	14.35	75.	13.33	.3	12.45	.6	11.68
.5	15.50	.8	14.33	.1	13.32	.4	12.44	.7	11.67
.6	15.48	.9	14.31	.2	13.30	.5	12.42	.8	11.66
.7	15.46	70.	14.29	.3	13.28	.6	12.41	.9	11.64
.8	15.43	.1	14.27	.4	13.26	.7	12.39	86.	11.63
.9	15.41	.2	14.25	.5	13.25	.8	12.38	.1	11.61
65.	15.38	.3	14.22	.6	13.23	.9	12.36	.2	11.60
.1	15.36	.4	14.20	.7	13.21	81.	12.35	.3	11.59
.2	15.34	.5	14.18	.8	13.19	.1	12.33	.4	11.57

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	11.56	.8	10.89	.1	10.30	.4	9.77	.7	9.29
.6	11.55	.9	10.88	.2	10.29	.5	9.76	.8	9.28
.7	11.53	92.	10.87	.3	10.28	.6	9.75	.9	9.27
.8	11.52	.1	10.86	.4	10.27	.7	9.74	108.	9.26
.9	11.51	.2	10.85	.5	10.26	.8	9.73	.1	9.25
87.	11.49	.3	10.83	.6	10.25	.9	9.72	.2	9.24
.1	11.48	.4	10.82	.7	10.24	103.	9.71	.3	9.23
.2	11.47	.5	10.81	.8	10.22	.1	9.70	.4	9.23
.3	11.45	.6	10.80	.9	10.21	.2	9.69	.5	9.22
.4	11.44	.7	10.79	98.	10.20	.3	9.68	.6	9.21
.5	11.43	.8	10.78	.1	10.19	.4	9.67	.7	9.20
.6	11.42	.9	10.76	.2	10.18	.5	9.66	.8	9.19
.7	11.40	93.	10.75	.3	10.17	.6	9.65	.9	9.18
.8	11.39	.1	10.74	.4	10.16	.7	9.64	109.	9.17
.9	11.38	.2	10.73	.5	10.15	.8	9.63	.2	9.16
88.	11.36	.3	10.72	.6	10.14	.9	9.62	.4	9.14
.1	11.35	.4	10.71	.7	10.13	104.	9.62	.6	9.12
.2	11.34	.5	10.70	.8	10.12	.1	9.61	.8	9.11
.3	11.33	.6	10.68	.9	10.11	.2	9.60	110.	9.09
.4	11.31	.7	10.67	99.	10.10	.3	9.59	.2	9.07
.5	11.30	.8	10.66	.1	10.09	.4	9.58	.4	9.06
.6	11.29	.9	10.65	.2	10.08	.5	9.57	.6	9.04
.7	11.27	94.	10.64	.3	10.07	.6	9.56	.8	9.03
.8	11.26	.1	10.63	.4	10.06	.7	9.55	111.	9.01
.9	11.25	.2	10.62	.5	10.05	.8	9.54	.2	8.99
89.	11.24	.3	10.60	.6	10.04	.9	9.53	.4	8.98
.1	11.22	.4	10.59	.7	10.03	105.	9.52	.6	8.96
.2	11.21	.5	10.58	.8	10.02	.1	9.51	.8	8.94
.3	11.20	.6	10.57	.9	10.01	.2	9.51	112.	8.93
.4	11.19	.7	10.56	100.	10.00	.3	9.50	.2	8.91
.5	11.17	.8	10.55	.1	9.99	.4	9.49	.4	8.90
.6	11.16	.9	10.54	.2	9.98	.5	9.48	.6	8.88
.7	11.15	95.	10.53	.3	9.97	.6	9.47	.8	8.87
.8	11.14	.1	10.52	.4	9.96	.7	9.46	113.	8.85
.9	11.12	.2	10.50	.5	9.95	.8	9.45	.2	8.83
90.	11.11	.3	10.49	.6	9.94	.9	9.44	.4	8.82
.1	11.10	.4	10.48	.7	9.93	106.	9.43	.6	8.80
.2	11.09	.5	10.47	.8	9.92	.1	9.43	.8	8.79
.3	11.07	.6	10.46	.9	9.91	.2	9.42	114.	8.77
.4	11.06	.7	10.45	101.	9.90	.3	9.41	.2	8.76
.5	11.05	.8	10.44	.1	9.89	.4	9.40	.4	8.74
.6	11.04	.9	10.43	.2	9.88	.5	9.39	.6	8.73
.7	11.03	96.	10.42	.3	9.87	.6	9.38	.8	8.71
.8	11.01	.1	10.41	.4	9.86	.7	9.37	115.	8.70
.9	11.00	.2	10.40	.5	9.85	.8	9.36	.2	8.68
91.	10.99	.3	10.38	.6	9.84	.9	9.35	.4	8.67
.1	10.98	.4	10.37	.7	9.83	107.	9.35	.6	8.65
.2	10.96	.5	10.36	.8	9.82	.1	9.34	.8	8.64
.3	10.95	.6	10.35	.9	9.81	.2	9.33	116.	8.62
.4	10.94	.7	10.34	102.	9.80	.3	9.32	.2	8.61
.5	10.93	.8	10.33	.1	9.79	.4	9.31	.4	8.59
.6	10.92	.9	10.32	.2	9.78	.5	9.30	.6	8.58
.7	10.91	97.	10.31	.3	9.78	.6	9.29	.8	8.56

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
117.	8.55	.5	7.33	163.	6.13	209.	4.78	274.	3.65
.2	8.53	137.	7.30	.5	6.12	210.	4.76	276.	3.62
.4	8.52	.5	7.27	164.	6.10	211.	4.74	278.	3.60
.6	8.50	138.	7.25	.5	6.08	212.	4.72	280.	3.57
.8	8.49	.5	7.22	165.	6.06	213.	4.69	282.	3.55
118.	8.47	139.	7.19	.5	6.04	214.	4.67	284.	3.52
.2	8.46	.5	7.17	166.	6.02	215.	4.65	286.	3.50
.4	8.45	140.	7.14	.5	6.01	216.	4.63	288.	3.47
.6	8.43	.5	7.12	167.	5.99	217.	4.61	290.	3.45
.8	8.42	141.	7.09	.5	5.97	218.	4.59	292.	3.42
119.	8.40	.5	7.07	168.	5.95	219.	4.57	294.	3.40
.2	8.39	142.	7.04	.5	5.93	220.	4.55	296.	3.38
.4	8.38	.5	7.02	169.	5.92	221.	4.52	298.	3.36
.6	8.36	143.	6.99	.5	5.90	222.	4.50	300.	3.33
.8	8.35	.5	6.97	170.	5.88	223.	4.48	302.	3.31
120.	8.33	144.	6.94	.5	5.85	224.	4.46	304.	3.29
.2	8.32	.5	6.92	172.	5.81	225.	4.44	306.	3.27
.4	8.31	145.	6.90	173.	5.78	226.	4.42	308.	3.25
.6	8.29	.5	6.87	174.	5.75	227.	4.41	310.	3.23
.8	8.28	146.	6.85	175.	5.71	228.	4.39	312.	3.21
121.	8.26	.5	6.83	176.	5.68	229.	4.37	314.	3.18
.4	8.24	147.	6.80	177.	5.65	230.	4.35	316.	3.17
.6	8.22	.5	6.78	178.	5.62	231.	4.33	318.	3.14
.8	8.21	148.	6.76	179.	5.59	232.	4.31	320.	3.12
122.	8.20	.5	6.73	180.	5.56	233.	4.29	322.	3.11
.5	8.16	149.	6.71	181.	5.52	234.	4.27	324.	3.09
123.	8.13	.5	6.69	182.	5.49	235.	4.26	326.	3.07
.5	8.10	150.	6.67	183.	5.46	236.	4.24	328.	3.05
124.	8.06	.5	6.64	184.	5.43	237.	4.22	330.	3.03
.5	8.03	151.	6.62	185.	5.41	238.	4.20	332.	3.01
125.	8.00	.5	6.60	186.	5.38	239.	4.18	334.	2.99
.5	7.97	152.	6.58	187.	5.35	240.	4.17	336.	2.98
126.	7.94	.5	6.56	188.	5.32	241.	4.15	338.	2.96
.5	7.91	153.	6.54	189.	5.29	242.	4.13	340.	2.94
127.	7.87	.5	6.51	190.	5.26	243.	4.12	342.	2.92
.5	7.84	154.	6.49	191.	5.24	244.	4.10	344.	2.91
128.	7.81	.5	6.47	192.	5.21	245.	4.08	346.	2.89
.5	7.78	155.	6.45	193.	5.18	246.	4.07	348.	2.87
129.	7.75	.5	6.43	194.	5.15	247.	4.05	350.	2.86
.5	7.72	156.	6.41	195.	5.13	248.	4.03	352.	2.84
130.	7.69	.5	6.39	196.	5.10	249.	4.02	354.	2.82
.5	7.66	157.	6.36	197.	5.08	250.	4.00	356.	2.81
131.	7.63	.5	6.35	198.	5.05	252.	3.97	358.	2.79
.5	7.60	158.	6.33	199.	5.03	254.	3.94	360.	2.78
132.	7.58	.5	6.31	200.	5.00	256.	3.91	362.	2.76
.5	7.55	159.	6.29	201.	4.98	258.	3.88	364.	2.75
133.	7.52	.5	6.27	202.	4.95	260.	3.85	366.	2.73
.5	7.49	160.	6.25	203.	4.93	262.	3.82	368.	2.72
134.	7.46	.5	6.23	204.	4.90	264.	3.79	370.	2.70
.5	7.43	161.	6.21	205.	4.88	266.	3.76	372.	2.69
135.	7.41	.5	6.19	206.	4.85	268.	3.73	374.	2.67
.5	7.38	162.	6.17	207.	4.83	270.	3.70	376.	2.66
136.	7.35	.5	6.15	208.	4.81	272.	3.68	378.	2.65

Yarn Table — (Concluded)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
380.	2.63	450.	2.22	525.	1.90	600.	1.67	750.	1.33
382.	2.62	455.	2.20	530.	1.89	610.	1.64	760.	1.32
385.	2.60	460.	2.17	535.	1.87	620.	1.61	770.	1.30
390.	2.56	465.	2.15	540.	1.85	630.	1.59	780.	1.28
395.	2.53	470.	2.13	545.	1.83	640.	1.56	790.	1.27
400.	2.50	475.	2.11	550.	1.82	650.	1.54	800.	1.25
405.	2.47	480.	2.08	555.	1.80	660.	1.52	820.	1.22
410.	2.44	485.	2.06	560.	1.79	670.	1.49	840.	1.19
415.	2.41	490.	2.04	565.	1.77	680.	1.47	860.	1.16
420.	2.38	495.	2.02	570.	1.75	690.	1.45	880.	1.14
425.	2.35	500.	2.00	575.	1.74	700.	1.43	900.	1.11
430.	2.33	505.	1.98	580.	1.72	710.	1.41	925.	1.08
435.	2.30	510.	1.96	585.	1.71	720.	1.39	950.	1.05
440.	2.27	515.	1.94	590.	1.69	730.	1.37	975.	1.03
445.	2.25	520.	1.92	595.	1.68	740.	1.35	1,000.	1.00

Yarn Number

To find the yarn number or count:

$$\frac{\text{Number of yards in Sample} \times \text{Grains in a Pound}}{\text{Weight of sample in grains} \times \text{standard}} = \text{Yarn Number}$$

Or for cotton yarn using a 120 yard skein:

$$\frac{120 \times 7,000}{\text{Weight of sample} \times 840} = \frac{1,000}{\text{Weight of sample in grains}} = \text{Yarn Number}$$

Comparative Yarn Tables

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale	Woolen Run Scale
1	840	52 $\frac{1}{2}$	5,314.915	2.800	1 $\frac{1}{2}$.525
2	1,680	105	2,657.457	5.600	3	1.05
3	2,520	157 $\frac{1}{2}$	1,771.638	8.400	4 $\frac{1}{2}$	1.58
4	3,360	210	1,328.729	11.200	6	2.10
5	4,200	262 $\frac{1}{2}$	1,062.983	14.000	7 $\frac{1}{2}$	2.63
6	5,040	315	885.819	16.800	9	3.15
7	5,880	367 $\frac{1}{2}$	759.274	19.600	10 $\frac{1}{2}$	3.68
8	6,720	420	664.364	22.400	12	4.20
9	7,560	472 $\frac{1}{2}$	590.546	25.200	13 $\frac{1}{2}$	4.73
10	8,400	525	531.491	28.000	15	5.25
11	9,240	577 $\frac{1}{2}$	483.172	30.800	16 $\frac{1}{2}$	5.78
12	10,080	630	442.910	33.600	18	6.30
13	10,920	682 $\frac{1}{2}$	408.839	36.400	19 $\frac{1}{2}$	6.83
14	11,760	735	379.637	39.200	21	7.35
15	12,600	787 $\frac{1}{2}$	354.328	42.000	22 $\frac{1}{2}$	7.88
16	13,440	840	332.182	44.800	24	8.40
17	14,280	892 $\frac{1}{2}$	312.642	47.600	25 $\frac{1}{2}$	8.93
18	15,120	945	295.273	50.400	27	9.45
19	15,960	997 $\frac{1}{2}$	279.732	53.200	28 $\frac{1}{2}$	9.98
20	16,800	1,050	265.746	56.000	30	10.50
21	17,640	1,102 $\frac{1}{2}$	253.091	58.800	31 $\frac{1}{2}$	11.03
22	18,480	1,155	241.586	61.600	33	11.55
23	19,320	1,207 $\frac{1}{2}$	231.083	64.400	34 $\frac{1}{2}$	12.08
24	20,160	1,260	221.455	67.200	36	12.60
25	21,000	1,312 $\frac{1}{2}$	212.597	70.000	37 $\frac{1}{2}$	13.13
26	21,840	1,365	204.420	72.800	39	13.65
27	22,680	1,417 $\frac{1}{2}$	196.849	75.600	40 $\frac{1}{2}$	14.18
28	23,520	1,470	189.818	78.400	42	14.70
29	24,360	1,522 $\frac{1}{2}$	183.273	81.200	43 $\frac{1}{2}$	15.23
30	25,200	1,575	177.164	84.000	45	15.75
31	26,040	1,627 $\frac{1}{2}$	171.449	86.800	46 $\frac{1}{2}$	16.28
32	26,880	1,680	166.091	89.600	48	16.80
33	27,720	1,732 $\frac{1}{2}$	161.057	92.400	49 $\frac{1}{2}$	17.33
34	28,560	1,785	156.321	95.200	51	17.85
35	29,400	1,837 $\frac{1}{2}$	151.855	98.000	52 $\frac{1}{2}$	18.38
36	30,240	1,890	147.637	100.800	54	18.90
37	31,080	1,942 $\frac{1}{2}$	143.646	103.600	55 $\frac{1}{2}$	19.43
38	31,920	1,995	139.866	106.400	57	19.95
39	32,760	2,047 $\frac{1}{2}$	136.280	109.200	58 $\frac{1}{2}$	20.48
40	33,600	2,100	132.873	112.000	60	21.00
41	34,440	2,152 $\frac{1}{2}$	129.632	114.800	61 $\frac{1}{2}$	21.53
42	35,280	2,205	126.546	117.600	63	22.05
43	36,120	2,257 $\frac{1}{2}$	123.603	120.400	64 $\frac{1}{2}$	22.58
44	36,960	2,310	120.793	123.200	66	23.10
45	37,800	2,362 $\frac{1}{2}$	118.109	126.000	67 $\frac{1}{2}$	23.62
46	38,640	2,415	115.542	128.800	69	24.15
47	39,480	2,467 $\frac{1}{2}$	113.083	131.600	70 $\frac{1}{2}$	24.68
48	40,320	2,520	110.727	134.400	72	25.20
49	41,160	2,572 $\frac{1}{2}$	108.468	137.200	73 $\frac{1}{2}$	—
50	42,000	2,625	106.298	140.000	75	—

Comparative Yarn Tables — (Concluded)

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale
52	43,680	2,730	102.210	145.600	78
54	45,360	2,835	98.425	151.200	81
56	47,040	2,940	94.909	156.800	84
58	48,720	3,045	91.637	162.400	87
60	50,400	3,150	88.582	168.000	90
62	52,080	3,255	85.725	173.600	93
64	53,760	3,360	83.045	179.200	96
66	55,440	3,465	80.529	184.800	99
68	57,120	3,570	78.161	190.400	102
70	58,800	3,675	75.927	196.000	105
72	60,480	3,780	73.818	201.600	108
74	62,160	3,885	71.823	207.200	111
76	63,840	3,990	69.933	212.800	114
78	65,520	4,095	68.140	218.400	117
80	67,200	4,200	66.436	224.000	120
90	75,600	4,725	59.055	252.000	135
100	84,000	5,250	53.149	280.000	150
110	92,400	5,775	48.317	308.000	—
120	100,800	6,300	44.291	336.000	—
130	109,200	6,825	40.884	364.000	—
140	117,600	7,350	37.964	392.000	—
150	126,000	7,875	35.433	420.000	—
160	134,400	8,400	33.218	448.000	—
170	142,800	8,925	31.264	476.000	—
180	151,200	9,450	29.527	504.000	—
190	159,600	9,975	27.973	532.000	—
200	168,000	10,500	26.575	560.000	—
225	189,000	11,812 $\frac{1}{2}$	23.622	630.000	—
250	210,000	13,125	21.260	700.000	—
275	231,000	14,437 $\frac{1}{2}$	19.327	770.000	—
300	252,000	15,750	17.716	840.000	—
325	273,000	17,062 $\frac{1}{2}$	16.354	910.000	—
350	294,000	18,375	15.186	980.000	—
375	315,000	19,687 $\frac{1}{2}$	14.173	1,050.000	—
400	336,000	21,000	13.287	1,120.000	—
425	357,000	22,312 $\frac{1}{2}$	12.506	1,190.000	—
450	378,000	23,625	11.811	1,260.000	—
475	399,000	24,937 $\frac{1}{2}$	11.189	1,330.000	—
500	420,000	26,250	10.630	1,400.000	—
525	441,000	27,562 $\frac{1}{2}$	10.124	1,470.000	—
550	462,000	28,875	9.664	1,540.000	—
575	483,000	30,187 $\frac{1}{2}$	9.244	1,610.000	—
600	504,000	31,500	8.858	1,680.000	—

Warper Production Calculation

To find pounds of production multiply the yards warped per minute by the multiplier opposite the number of yarn warped, and the product by the hours of operation times the number of ends. Example: To find the product of a warper running 52 yards per minute, on No. 18 yarn, with 410 ends on beam, for 40 hours (actual running time), $52 \times .00397 \times 410 \times 40 = 3385.6$.

Number of Yarn	Multipliers	Number of Yarn	Multipliers	Number of Yarn	Multipliers
6	.01190	27	.00265	48	.00149
7	.01020	28	.00255	49	.00146
8	.00893	29	.00246	50	.00143
9	.00794	30	.00238	52	.00137
10	.00714	31	.00230	54	.00132
11	.00649	32	.00223	56	.00127
12	.00595	33	.00213	58	.00123
13	.00549	34	.00210	60	.00119
14	.00510	35	.00204	62	.00115
15	.00476	36	.00198	64	.00112
16	.00446	37	.00193	66	.00108
17	.00420	38	.00188	68	.00105
18	.00397	39	.00183	70	.00102
19	.00376	40	.00179	75	.00095
20	.00357	41	.00174	80	.00089
21	.00340	42	.00170	85	.00084
22	.00325	43	.00166	90	.00079
23	.00311	44	.00162	95	.00075
24	.00298	45	.00159	100	.00071
25	.00286	46	.00155		
26	.00275	47	.00152		

Table for Use in Converting Linear Yards into Square Yards

Bureau of Census

The following table is made out in parallel columns. The first column refers to the width, in inches, of the woven products while the opposite figure represents the "equivalent" in square yards.

To convert linear yards to square yards, take the "equivalent" opposite the number representing the width in inches and multiply by the number of linear yards. Example: To convert 1,386,520 linear yards of cloth 38½ inches wide into square yards — the "equivalent" of 38½ inches is 1.069, which multiplied by 1,386,520 gives 1,482,190 square yards.

Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards
12½	.347	28½	.792	44½	1.236	60½	1.681	76½	2.125	92½	2.569
13	.361	29	.806	45	1.250	61	1.694	77	2.139	93	2.583
13½	.375	29½	.819	45½	1.264	61½	1.708	77½	2.163	93½	2.597
14	.389	30	.833	46	1.278	62	1.722	78	2.167	94	2.611
14½	.403	30½	.847	46½	1.292	62½	1.736	78½	2.181	94½	2.625
15	.417	31	.861	47	1.306	63	1.750	79	2.194	95	2.639
15½	.431	31½	.875	47½	1.319	63½	1.764	79½	2.208	95½	2.653
16	.444	32	.889	48	1.333	64	1.778	80	2.222	96	2.667
16½	.458	32½	.903	48½	1.347	64½	1.792	80½	2.236	96½	2.681
17	.472	33	.917	49	1.361	65	1.806	81	2.250	97	2.694
17½	.486	33½	.931	49½	1.375	65½	1.819	81½	2.264	97½	2.708
18	.500	34	.944	50	1.389	66	1.833	82	2.278	98	2.722
18½	.514	34½	.958	50½	1.403	66½	1.847	82½	2.292	98½	2.736
19	.528	35	.972	51	1.417	67	1.861	83	2.306	99	2.750
19½	.542	35½	.986	51½	1.431	67½	1.875	83½	2.319	99½	2.764
20	.556	36	1.000	52	1.444	68	1.889	84	2.333	100	2.778
20½	.569	36½	1.014	52½	1.458	68½	1.903	84½	2.347	100½	2.792
21	.583	37	1.028	53	1.472	69	1.917	85	2.361	101	2.806
21½	.597	37½	1.042	53½	1.486	69½	1.931	85½	2.375	101½	2.819
22	.611	38	1.056	54	1.500	70	1.944	86	2.389	102	2.833
22½	.625	38½	1.069	54½	1.514	70½	1.958	86½	2.403	102½	2.847
23	.639	39	1.083	55	1.528	71	1.972	87	2.417	103	2.861
23½	.653	39½	1.097	55½	1.542	71½	1.986	87½	2.431	103½	2.875
24	.667	40	1.111	56	1.556	72	2.000	88	2.444	104	2.889
24½	.681	40½	1.125	56½	1.569	72½	2.014	88½	2.458	104½	2.903
25	.694	41	1.139	57	1.583	73	2.028	89	2.472	105	2.917
25½	.708	41½	1.153	57½	1.597	73½	2.042	89½	2.486	105½	2.931
26	.722	42	1.167	58	1.611	74	2.056	90	2.500	106	2.944
26½	.736	42½	1.181	58½	1.625	74½	2.069	90½	2.514	106½	2.958
27	.750	43	1.194	59	1.639	75	2.083	91	2.528	107	2.972
27½	.764	43½	1.208	59½	1.653	75½	2.097	91½	2.542	107½	2.986
28	.778	44	1.222	60	1.667	76	2.111	92	2.556	108	3.000

Yards of Cloth per Loom per Hour

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
20	8.33	8.75	9.17	9.58	10.00	10.42	10.83	11.25	11.67	12.08	12.50
22	7.58	7.95	8.33	8.71	9.09	9.47	9.85	10.23	10.61	10.98	11.36
24	6.94	7.29	7.64	7.99	8.33	8.68	9.03	9.37	9.72	10.07	10.42
26	6.41	6.73	7.05	7.37	7.69	8.01	8.33	8.65	8.97	9.29	9.62
28	5.95	6.25	6.55	6.85	7.14	7.44	7.74	8.04	8.33	8.63	8.93
30	5.56	5.83	6.11	6.39	6.67	6.94	7.22	7.50	7.78	8.06	8.33
32	5.21	5.47	5.73	5.99	6.25	6.51	6.77	7.03	7.29	7.55	7.81
34	4.90	5.15	5.39	5.64	5.88	6.13	6.37	6.62	6.86	7.11	7.35
36	4.63	4.86	5.09	5.32	5.56	5.79	6.02	6.25	6.48	6.71	6.94
38	4.39	4.61	4.82	5.04	5.26	5.48	5.70	5.92	6.14	6.36	6.58
40	4.17	4.37	4.58	4.79	5.00	5.21	5.42	5.63	5.83	6.04	6.25
42	3.97	4.17	4.37	4.56	4.76	4.96	5.16	5.36	5.56	5.75	5.95
44	3.79	3.98	4.17	4.36	4.55	4.73	4.92	5.11	5.30	5.49	5.68
46	3.62	3.80	3.99	4.17	4.35	4.53	4.71	4.89	5.07	5.25	5.43
48	3.47	3.65	3.82	3.99	4.17	4.34	4.51	4.69	4.86	5.03	5.21
50	3.33	3.50	3.67	3.83	4.00	4.17	4.33	4.50	4.67	4.83	5.00
52	3.21	3.37	3.53	3.69	3.85	4.01	4.17	4.33	4.49	4.65	4.81
54	3.09	3.24	3.40	3.55	3.70	3.86	4.01	4.17	4.32	4.48	4.63
56	2.98	3.13	3.27	3.42	3.57	3.72	3.87	4.02	4.17	4.32	4.46
58	2.87	3.02	3.16	3.30	3.45	3.59	3.74	3.88	4.02	4.17	4.31
60	2.78	2.92	3.06	3.19	3.33	3.47	3.61	3.75	3.89	4.03	4.17
62	2.69	2.82	2.96	3.09	3.23	3.36	3.49	3.63	3.76	3.90	4.03
64	2.60	2.73	2.86	2.99	3.13	3.26	3.39	3.52	3.65	3.78	3.91
66	2.53	2.65	2.78	2.90	3.03	3.16	3.28	3.41	3.54	3.66	3.79
68	2.45	2.57	2.70	2.82	2.94	3.06	3.19	3.31	3.43	3.55	3.68
70	2.38	2.50	2.62	2.74	2.86	2.98	3.10	3.21	3.33	3.45	3.57
72	2.31	2.43	2.55	2.66	2.78	2.89	3.01	3.13	3.24	3.36	3.47
74	2.25	2.36	2.48	2.59	2.70	2.82	2.93	3.04	3.15	3.27	3.38
76	2.19	2.30	2.41	2.52	2.63	2.74	2.85	2.96	3.07	3.18	3.29
78	2.14	2.24	2.35	2.46	2.56	2.67	2.78	2.88	2.99	3.10	3.21
80	2.08	2.19	2.29	2.40	2.50	2.60	2.71	2.81	2.92	3.02	3.13
82	2.03	2.13	2.24	2.34	2.44	2.54	2.64	2.74	2.85	2.95	3.05
84	1.98	2.08	2.18	2.28	2.38	2.48	2.58	2.68	2.78	2.88	2.98
86	1.94	2.03	2.13	2.23	2.33	2.42	2.52	2.62	2.71	2.81	2.91
88	1.89	1.99	2.08	2.18	2.27	2.37	2.46	2.56	2.65	2.75	2.84
90	1.85	1.94	2.04	2.13	2.22	2.31	2.41	2.50	2.59	2.69	2.78
92	1.81	1.90	1.99	2.08	2.17	2.26	2.36	2.45	2.54	2.63	2.72
94	1.77	1.86	1.95	2.04	2.13	2.22	2.30	2.39	2.48	2.57	2.66
96	1.74	1.82	1.91	2.00	2.08	2.17	2.26	2.34	2.43	2.52	2.60
98	1.70	1.79	1.87	1.96	2.04	2.13	2.21	2.30	2.38	2.47	2.55
100	1.67	1.75	1.83	1.92	2.00	2.08	2.17	2.25	2.33	2.42	2.50

Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
20	12.92	13.33	13.75	14.17	14.58	15.00	15.42	15.83	16.25	16.67	17.08
22	11.74	12.12	12.50	12.88	13.26	13.64	14.02	14.39	14.77	15.15	15.53
24	10.76	11.11	11.46	11.81	12.15	12.50	12.85	13.19	13.54	13.89	14.24
26	9.94	10.26	10.58	10.90	11.22	11.54	11.86	12.18	12.50	12.82	13.14
28	9.23	9.52	9.82	10.12	10.42	10.71	11.01	11.31	11.61	11.90	12.20
30	8.61	8.89	9.17	9.44	9.72	10.00	10.28	10.55	10.83	11.11	11.39
32	8.07	8.33	8.59	8.85	9.11	9.37	9.64	9.90	10.16	10.42	10.68
34	7.60	7.84	8.09	8.33	8.58	8.82	9.07	9.31	9.56	9.80	10.05
36	7.18	7.41	7.64	7.87	8.10	8.33	8.56	8.80	9.03	9.26	9.49
38	6.80	7.02	7.24	7.46	7.68	7.89	8.11	8.33	8.55	8.77	8.99
40	6.46	6.67	6.87	7.08	7.29	7.50	7.71	7.92	8.13	8.33	8.54
42	6.15	6.35	6.55	6.75	6.94	7.14	7.34	7.54	7.74	7.94	8.13
44	5.87	6.06	6.25	6.44	6.63	6.82	7.01	7.20	7.39	7.58	7.77
46	5.62	5.80	5.98	6.16	6.34	6.52	6.70	6.88	7.07	7.25	7.43
48	5.38	5.56	5.73	5.90	6.08	6.25	6.42	6.60	6.77	6.94	7.12
50	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	6.67	6.83
52	4.97	5.13	5.29	5.45	5.61	5.77	5.93	6.09	6.25	6.41	6.57
54	4.78	4.94	5.09	5.25	5.40	5.56	5.71	5.86	6.02	6.17	6.33
56	4.61	4.76	4.91	5.06	5.21	5.36	5.51	5.65	5.80	5.95	6.10
58	4.45	4.60	4.74	4.88	5.03	5.17	5.32	5.46	5.60	5.75	5.89
60	4.31	4.44	4.58	4.72	4.86	5.00	5.14	5.28	5.42	5.56	5.69
62	4.17	4.30	4.44	4.57	4.70	4.84	4.97	5.11	5.24	5.38	5.51
64	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08	5.21	5.34
66	3.91	4.04	4.17	4.29	4.42	4.55	4.67	4.80	4.92	5.05	5.18
68	3.80	3.92	4.04	4.17	4.29	4.41	4.53	4.66	4.78	4.90	5.02
70	3.69	3.81	3.93	4.05	4.17	4.29	4.40	4.52	4.64	4.76	4.88
72	3.59	3.70	3.82	3.94	4.05	4.17	4.28	4.40	4.51	4.63	4.75
74	3.49	3.60	3.72	3.83	3.94	4.05	4.17	4.28	4.39	4.50	4.62
76	3.40	3.51	3.62	3.73	3.84	3.95	4.06	4.17	4.28	4.39	4.50
78	3.31	3.42	3.53	3.63	3.74	3.85	3.95	4.06	4.17	4.27	4.38
80	3.23	3.33	3.44	3.54	3.65	3.75	3.85	3.96	4.06	4.17	4.27
82	3.15	3.25	3.35	3.46	3.56	3.66	3.76	3.86	3.96	4.07	4.17
84	3.08	3.17	3.27	3.37	3.47	3.57	3.66	3.77	3.87	3.97	4.07
86	3.00	3.10	3.20	3.29	3.39	3.49	3.58	3.68	3.78	3.88	3.97
88	2.94	3.03	3.13	3.22	3.31	3.41	3.50	3.60	3.69	3.79	3.88
90	2.87	2.96	3.06	3.15	3.24	3.33	3.43	3.52	3.61	3.70	3.80
92	2.81	2.90	2.99	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71
94	2.75	2.84	2.93	3.01	3.10	3.19	3.28	3.37	3.46	3.55	3.63
96	2.69	2.78	2.86	2.95	3.04	3.13	3.21	3.30	3.39	3.47	3.56
98	2.64	2.72	2.81	2.89	2.98	3.06	3.15	3.23	3.32	3.40	3.49
100	2.58	2.67	2.75	2.83	2.92	3.00	3.08	3.17	3.25	3.33	3.44

Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
102	1.63	1.72	1.80	1.88	1.96	2.04	2.12	2.21	2.29	2.37	2.45
104	1.60	1.68	1.76	1.84	1.92	2.00	2.08	2.16	2.24	2.32	2.40
106	1.57	1.65	1.73	1.81	1.89	1.97	2.04	2.12	2.20	2.28	2.36
108	1.54	1.62	1.70	1.77	1.85	1.93	2.01	2.08	2.16	2.24	2.31
110	1.52	1.59	1.67	1.74	1.82	1.89	1.97	2.05	2.12	2.20	2.27
112	1.49	1.56	1.64	1.71	1.79	1.86	1.93	2.01	2.08	2.16	2.23
114	1.46	1.54	1.61	1.68	1.75	1.83	1.90	1.97	2.05	2.12	2.19
116	1.44	1.51	1.58	1.65	1.72	1.80	1.87	1.94	2.01	2.08	2.16
118	1.41	1.48	1.55	1.62	1.69	1.77	1.84	1.91	1.98	2.05	2.12
120	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.87	1.94	2.01	2.08
122	1.37	1.43	1.50	1.57	1.64	1.71	1.78	1.84	1.91	1.98	2.04
124	1.34	1.41	1.48	1.55	1.61	1.68	1.75	1.81	1.88	1.95	2.01
126	1.32	1.39	1.46	1.52	1.59	1.65	1.72	1.79	1.85	1.92	1.98
128	1.30	1.37	1.43	1.50	1.56	1.63	1.69	1.76	1.82	1.89	1.95
130	1.28	1.35	1.41	1.47	1.54	1.60	1.67	1.73	1.79	1.86	1.92
134	1.24	1.31	1.37	1.43	1.49	1.55	1.62	1.68	1.74	1.80	1.87
136	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.72	1.78	1.84
140	1.19	1.25	1.31	1.37	1.43	1.49	1.55	1.61	1.67	1.73	1.79
144	1.16	1.22	1.27	1.33	1.39	1.45	1.50	1.56	1.62	1.68	1.74
146	1.14	1.20	1.26	1.31	1.37	1.43	1.48	1.54	1.60	1.66	1.71
150	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.50	1.56	1.61	1.67
154	1.08	1.14	1.19	1.24	1.30	1.35	1.41	1.46	1.52	1.57	1.62
156	1.07	1.12	1.18	1.23	1.28	1.34	1.39	1.44	1.50	1.55	1.60
160	1.04	1.09	1.15	1.20	1.25	1.30	1.35	1.41	1.46	1.51	1.56
164	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.37	1.42	1.47	1.52
166	1.00	1.05	1.10	1.15	1.20	1.26	1.31	1.35	1.41	1.46	1.51
170	.98	1.03	1.08	1.13	1.18	1.23	1.27	1.32	1.37	1.42	1.47
174	.96	1.01	1.05	1.10	1.15	1.20	1.25	1.29	1.34	1.39	1.44
176	.95	.99	1.04	1.09	1.14	1.18	1.23	1.28	1.33	1.37	1.42
180	.93	.97	1.02	1.06	1.11	1.16	1.20	1.25	1.30	1.34	1.39

Yards of Cloth per Loom per Hour — (Concluded)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
102	2.53	2.61	2.70	2.78	2.86	2.94	3.02	3.10	3.19	3.27	3.35
104	2.48	2.56	2.64	2.72	2.80	2.88	2.96	3.04	3.13	3.21	3.29
106	2.44	2.52	2.59	2.67	2.75	2.83	2.91	2.99	3.07	3.14	3.22
108	2.39	2.47	2.55	2.62	2.70	2.78	2.85	2.93	3.01	3.09	3.16
110	2.35	2.42	2.50	2.58	2.65	2.73	2.80	2.88	2.95	3.03	3.11
112	2.31	2.38	2.46	2.53	2.60	2.68	2.75	2.83	2.90	2.98	3.05
114	2.27	2.34	2.41	2.49	2.56	2.63	2.70	2.78	2.85	2.92	3.00
116	2.23	2.30	2.37	2.44	2.51	2.59	2.66	2.73	2.80	2.87	2.95
118	2.19	2.26	2.33	2.40	2.47	2.54	2.61	2.68	2.75	2.82	2.90
120	2.15	2.22	2.29	2.36	2.43	2.50	2.57	2.64	2.71	2.78	2.85
122	2.12	2.19	2.25	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.80
124	2.08	2.15	2.22	2.28	2.35	2.42	2.49	2.55	2.62	2.69	2.76
126	2.05	2.12	2.18	2.25	2.31	2.38	2.45	2.51	2.58	2.65	2.71
128	2.02	2.08	2.15	2.21	2.28	2.34	2.41	2.47	2.54	2.60	2.67
130	1.99	2.05	2.12	2.18	2.24	2.31	2.37	2.44	2.50	2.56	2.63
134	1.93	1.99	2.05	2.11	2.18	2.24	2.30	2.36	2.43	2.49	2.55
136	1.90	1.96	2.02	2.08	2.14	2.21	2.27	2.33	2.39	2.45	2.51
140	1.85	1.90	1.96	2.02	2.08	2.14	2.20	2.26	2.32	2.38	2.44
144	1.79	1.85	1.91	1.97	2.03	2.08	2.14	2.20	2.26	2.31	2.37
146	1.77	1.83	1.88	1.94	2.00	2.05	2.11	2.17	2.23	2.28	2.34
150	1.72	1.78	1.83	1.89	1.94	2.00	2.06	2.11	2.17	2.22	2.28
154	1.68	1.73	1.79	1.84	1.89	1.95	2.00	2.06	2.11	2.16	2.22
156	1.66	1.71	1.76	1.82	1.87	1.92	1.98	2.03	2.08	2.14	2.19
160	1.61	1.67	1.72	1.77	1.82	1.87	1.93	1.98	2.03	2.08	2.14
164	1.58	1.63	1.68	1.73	1.78	1.83	1.88	1.93	1.98	2.03	2.08
166	1.56	1.61	1.66	1.71	1.76	1.81	1.86	1.91	1.96	2.01	2.06
170	1.52	1.57	1.62	1.67	1.72	1.76	1.81	1.86	1.91	1.96	2.01
174	1.48	1.54	1.58	1.63	1.68	1.72	1.77	1.82	1.87	1.92	1.96
176	1.47	1.52	1.56	1.61	1.66	1.70	1.75	1.80	1.85	1.89	1.94
180	1.44	1.48	1.53	1.57	1.62	1.67	1.71	1.76	1.81	1.85	1.90

Average Yarn Sizes for Knitting Machines

Courtesy of the Textile World

The accompanying table gives the averages of yarn sizes used on machines with different needles per inch. Yarns coarser or finer can be used, of course, but this table will serve as a guide.

RIB MACHINES			Cylinder Needles per Inch	PLAIN MACHINES		
Woolen	Worsted	Cotton		Cotton	Worsted	Woolen
.75	2.25	1.5	3	.75	1.1	.40
1.25	3.75	2.5	4	1.5	2.25	.75
2.00	6.0	4.0	5	2.0	3.0	1.00
3.00	9.0	6.0	6	3.0	4.5	1.50
4.25	12.0	8.0	7	4.0	6.0	2.00
5.25	15.0	10.0	8	5.0	7.5	2.50
6.75	19.5	13.0	9	6.0	9.0	3.00
8.50	24.0	16.0	10	7.0	10.5	3.75
	30.0	20.0	11	8.0	12.0	4.25
	36.0	24.0	12	10.0	15.0	5.25
	42.0	28.0	13	12.0	18.0	6.25
	45.0	30.0	14	14.0	21.0	7.25
	50.0	33.0	15	16.0	24.0	8.50
	54.0	36.0	16	20.0	30.0	
	60.0	40.0	17	22.0	33.0	
			18	25.0	37.0	
			19	27.0	41.0	
			20	30.0	45.0	
			21	32.0	48.0	
			22	35.0	53.0	
			24	40.0	60.0	

Full Fashion { 39 gauge, 10 to 12 thread silk
42 gauge, 8 to 10 thread silk

Reasonable Allowance for Stops

Courtesy of the Textile World

The following figures show a reasonable allowance for stoppage of different classes of knitting mill machinery. They indicate the average percentage of the running time lost under normal conditions.

	Per Cent
Winders	5 to 25
Flat machines	5 to 20
Small ribbers	10
Large ribbers	15
Loop wheel machines	10
Automatics	10

Table Showing Number of Slots in Cylinders of Different Cuts

Courtesy of the Textile World

[Needles per inch]

Size of Ala- chine	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	26	28
2	20	24	32	38	44	50	58	64	70	76	80	88	94	100	108	116	122	128	132	140	152	160	176
2 1/2	22	28	36	42	48	56	64	70	76	84	92	100	108	116	120	128	134	140	144	152	168	184	200
3	24	32	40	48	56	64	72	80	88	96	104	112	120	124	134	142	146	152	162	176	192	204	220
3 1/2	26	34	42	50	60	68	76	84	96	104	112	120	132	142	152	160	170	180	188	192	208	224	240
4	28	38	48	58	68	78	88	94	104	112	122	132	144	154	164	176	184	194	204	216	224	248	268
4 1/2	30	42	52	62	72	82	92	102	112	124	134	144	154	168	178	188	200	212	224	228	240	288	308
5	32	44	56	66	76	86	100	112	120	132	144	154	164	176	188	200	216	228	240	246	260	304	328
5 1/2	34	48	60	70	82	96	108	120	128	140	152	164	176	188	200	216	228	242	256	264	304	352	376
6	36	50	64	76	88	100	116	128	140	152	166	178	188	200	216	228	240	252	264	280	320	368	400
6 1/2	40	54	68	80	94	106	120	132	148	160	176	188	200	212	228	240	252	268	284	294	328	384	416
7	42	56	70	84	98	112	124	142	154	168	184	200	212	224	240	252	268	280	296	306	336	396	440
7 1/2	44	58	72	88	102	118	132	148	164	176	194	208	224	240	250	268	284	294	304	324	344	408	440
8	46	60	76	92	108	124	140	152	168	180	200	212	220	240	260	276	292	300	310	320	368	424	460
8 1/2	48	64	80	98	114	130	146	160	184	200	214	230	248	264	280	300	312	324	336	360	416	448	480
9	50	70	86	104	120	136	154	176	192	208	224	240	260	276	292	308	328	340	352	372	400	432	464
9 1/2	52	72	92	108	124	142	160	180	200	216	232	252	270	292	308	324	344	352	360	384	412	448	504
10	54	76	96	112	128	148	168	180	201	224	244	264	286	304	324	344	352	360	384	412	448	488	528
10 1/2	56	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	372	384	400	420	444	480	528
11	58	84	108	132	156	176	192	216	240	264	288	312	336	360	384	408	420	432	456	480	528	600	660
11 1/2	60	88	112	136	160	180	200	222	252	288	300	336	360	396	420	456	480	504	540	564	624	708	780
12	62	92	120	144	168	192	216	240	272	308	336	384	408	444	468	504	540	564	600	624	720	816	888
12 1/2	64	96	124	152	176	200	224	252	288	320	352	400	432	468	504	540	564	600	624	660	768	864	960
13	66	100	128	156	180	204	232	264	300	336	372	420	444	480	516	552	588	624	660	696	804	900	984
13 1/2	68	104	132	160	184	208	236	268	304	340	376	424	448	484	520	556	592	628	664	700	816	912	996
14	70	108	136	164	188	212	240	272	308	344	380	428	452	488	524	560	596	632	668	704	824	920	1004
14 1/2	72	112	140	168	192	216	244	276	312	348	384	432	456	492	528	564	600	636	672	708	832	928	1012
15	74	116	144	172	196	220	248	280	316	352	388	436	460	496	532	568	604	640	676	712	840	936	1020
15 1/2	76	120	148	176	200	224	252	284	320	356	392	440	464	500	536	572	608	644	680	716	848	944	1028
16	78	124	152	180	204	228	256	288	324	360	396	444	468	504	540	576	612	648	684	720	856	952	1036
16 1/2	80	128	156	184	208	232	260	292	328	364	400	448	472	508	544	580	616	652	688	724	864	960	1044
17	82	132	160	188	212	236	264	296	332	368	404	452	476	512	548	584	620	656	692	728	872	968	1052
17 1/2	84	136	164	192	216	240	268	296	332	368	404	452	476	512	548	584	620	656	692	728	876	972	1056
18	86	140	168	196	220	244	272	300	336	372	408	456	480	516	552	588	624	660	696	732	880	976	1060
18 1/2	88	144	172	200	224	248	276	304	340	376	412	460	484	520	556	592	628	664	700	736	888	984	1068
19	90	148	176	204	228	252	280	308	344	380	416	464	488	524	560	596	632	668	704	740	892	988	1072
19 1/2	92	152	180	208	232	256	284	312	348	384	420	468	492	528	564	600	636	672	708	744	896	992	1076
20	94	156	184	212	236	260	288	316	352	388	424	472	496	532	568	604	640	676	712	748	900	996	1080
20 1/2	96	160	188	216	240	264	292	320	356	392	428	476	500	536	572	608	644	680	716	752	904	1000	1084
21	98	164	192	220	244	268	296	324	360	396	432	480	504	540	576	612	648	684	720	756	908	1004	1088
21 1/2	100	168	196	224	248	272	300	328	364	400	436	484	508	544	580	616	652	688	724	760	912	1008	1092
22	102	172	200	228	252	276	304	332	368	404	440	488	512	548	584	620	656	692	728	764	916	1012	1096
22 1/2	104	176	204	232	256	280	308	336	372	408	444	492	516	552	588	624	660	696	732	768	920	1016	1100
23	106	180	208	236	260	284	312	340	376	412	448	496	520	556	592	628	664	700	736	772	924	1020	1104
23 1/2	108	184	212	240	264	288	316	344	380	416	452	496	520	556	592	628	664	700	736	772	928	1024	1108
24	110	188	216	244	268	292	320	348	384	420	456	500	524	560	596	632	668	704	740	776	932	1028	1112
24 1/2	112	192	220	248	272	296	324	352	388	424	460	504	528	564	600	636	672	708	744	780	936	1032	1116
25	114	196	224	252	276	300	328	356	392	428	464	508	532	568	604	640	676	712	748	784	940	1036	1120
25 1/2	116	200	228	256	280	304	332	360	396	432	468	512	536	572	608	644	680	716	752	788	944	1040	1124
26	118	204	232	260	284	308	336	364	400	436	472	516	540	576	612	648	684	720	756	792	948	1044	1128
26 1/2	120	208	236	264	288	312	340	368	404	440	476	520	544	580	616	652	688	724	760	796	952	1048	1132
27	122	212	240	268	292	316	344	372	408	444	480	524	548	584	620	656	692	728	764	800	956	1052	1136
27 1/2	124	216	244	272	296	320	348	376	412	448	484	528	552	588	624	660	696	732	768	804	960	1056	1140
28	126	220	248	276	300	324	352	380	416	452	488	532	556	592	628	664	700	736	772	808	964	1060	1144
28 1/2	128	224	252	280	304	328	356	384	420	456	492	536	560	596	632	668	704	740	776	812	968	1064	1148
29	130	228	256	284	308	332	360	388	424	460	496	540	564	600	636	672	708	744	780	816	972	1068	1152
29 1/2	132	232	260	288	312	336	364	392	428	464	500	544	568	604	640	676	712	748	784	820	976	1072	1156
30	134	236	264	292	316	340	368	396	432	468	504	548	572	608	644	680	716	752	788	824	980	1076	1160
30 1/2	136	240	268	296	320	344	372	400	436	472	508	552	576	612	648	684	720	756	792	828	984	1080	1164
31	138	244	272	300	324	348	376	404	440	476	512	556	580	616	652	688	724	760	796	832	988	1084	1168
31 1/2	140	248	276	304	328	352	380	408	444	480	516	560	584	620	656	692	728	764	800	836	992	1088	1172
32	142	252	280	308	332	356	384	412	448	484	520	564	588	624	660	696	732	7					

Latch Needle Gauge and Needles Per Inch

Courtesy of the Textile World

The common gauges of latch needles are listed here with the number of needles per inch in the cylinder of the machines to correspond with them.

NEEDLE GAUGE	NEEDLES PER INCH	
	Ribbers	Automatics
2	1-2	-
4	2-3	-
8	3-4	-
12	3-5	5 - 8.4
18	4-7	8.4-10.1
24	6-9	10.3-11.6
36	8-13	11.6-14.9
48	10-15	15.0-18.6
54	-	18.3-20.3
60	16 and up	-

Production of Cotton Rib Underwear

Compiled by Gilbert R. Merrill

[Per 9 hours, no stops, 1 foot yarn for 4 inches of needles]

Cut	Yarn Size	Production per Feed [In Pounds]
4	2 $\frac{1}{3}$	50.0
5	4	29.0
6	6	20.0
7	8	15.0
8	10	12.0
9	13	9.1
10	16	7.4
11	20	5.9
12	24	4.9
13	28	4.2
14	34	3.5

Average Underwear Production

Compiled by Gilbert R. Merrill

[Dozen garments per 10 hours]

OPERATION	Union Suits	Shirts	Drawers	Usual Operative
Knit (6 to 10 machines):				
Webbing	36-60	60-90	42-90	Man
Cuffs	300-325	300-325	300-325	Man
Collarettes	500-600	500-600	—	Man
Nap (3 machines)	180	420	300	Man
Cut:				
Hand	40	100	100	Man
Machine	200	375	375	Man
Examine and dozen	300	300	300	Woman
Cuff	50	100	100	Woman
Welt	—	75	—	Woman
Seam	11-18	35-45	25-45	Woman
Cover seam	20-25	40-75	40-60	Woman
Layout and mark neck	125-150	150-200	—	Woman
Neck	140-150	175-200	—	Woman
Neck cut	125-160	150-200	—	Woman
Face	50-75	120-160	—	Woman
Button stay	60-75	140-185	—	Woman
Collarette	40-80	40-80	—	Woman
Overedge	60-125	100-200	—	Woman
Tack and bind	50-75	50-100	—	Woman
Trim	—	—	150-175	Woman
Double seat	50	—	65-75	Woman
Finish	—	—	18-22	Woman
Strap	—	—	90-100	Woman
Eyelet:				
Punched	—	—	300-320	Woman
Worked	—	—	550-600	Woman
Buttonholes	50 (8 button)	100 (4 button)	150 (3 button)	Woman
Mark buttons	100 (8 button)	200 (4 button)	250 (3 button)	Woman
Sew buttons	60 (8 button)	125 (4 button)	140 (3 button)	Woman
Examine	25-30	50-85	45-60	Woman
Mend garments	150-200	150-200	150-200	Woman
Label	80	80	80	Woman
Press	45-80	70-140	80-150	Man
Fold	45-60	90	100	Woman
Box	150	300-350	300-400	Woman

Above figures are for plant having a capacity of 800 dozen per day, with 7 to 8 per cent seconds.

Order of inspection: first, for heavy or light ends, dust marks, discolored buttons, crooked or strained seams; second, for seams, buttons and buttonholes, neck, leg, and sleeve finish.

Maximum Limits of Humidity at Given Temperatures when Artificial Humidification is employed

General Laws, chapter 149, section 110, Commonwealth of Massachusetts

I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity	I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity
60	58	88	78	73.5	77
61	59	88	79	74.5	77.5
62	60	88	80	75.5	77.5
63	61	88	81	76	76
64	62	88	82	76.5	74
65	63	88	83	77.5	74
66	64	88	84	78	72
67	65	88	85	79	72
68	66	88	86	80	72
69	67	88	87	80.5	71
70	68	88	88	81.5	71
71	68.5	85.5	89	82.5	71
72	69	84	90	83	69
73	70	84	91	83.5	68
74	70.5	81.5	92	84.5	68
75	71.5	81.5	93	85.5	68
76	72	79	94	86	68
77	73	79	95	87	66

Grades and Colors of the Universal Standards for American Upland Cotton

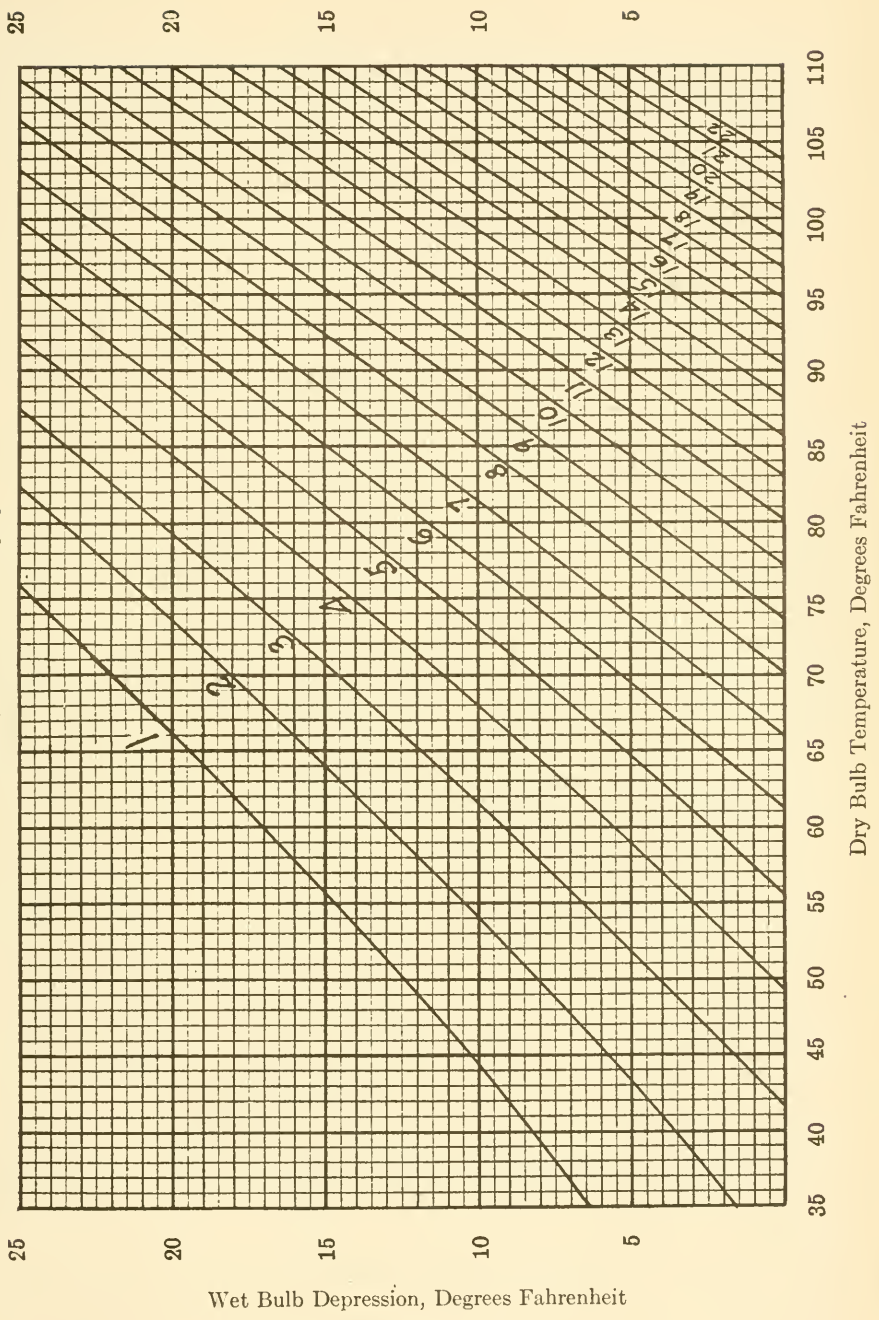
United States Department of Agriculture Circular 278

Blue- stained	Gray	Standards for Grades of Upland Cotton, White	Spotted	Yellow- tinged	Light- stained	Yellow- stained
		1 or midling fair				
		2 or strict good midling		2 T.		
3 B.	<i>3 G.</i>	3 or good midling	<i>3 Sp.</i>	3 T.	<i>3 L. S.</i>	3 S.
4 B.	<i>4 G.</i>	4 or strict midling	<i>4 Sp.</i>	4 T.	<i>4 L. S.</i>	4 S.
5 B.	<i>5 G.</i>	5 or midling	<i>5 Sp.</i>	5 T.	<i>5 L. S.</i>	5 S.
		6 or strict low midling	<i>6 Sp.</i>	6 T.		
		7 or low midling	<i>7 Sp.</i>	7 T.		
		8 or strict good ordinary				
		9 or good ordinary				

Symbols in heavy type denote grades and colors for which practical forms of the official cotton standards are prepared. Symbols in italics represent the designations of cotton which in color is between practical forms.

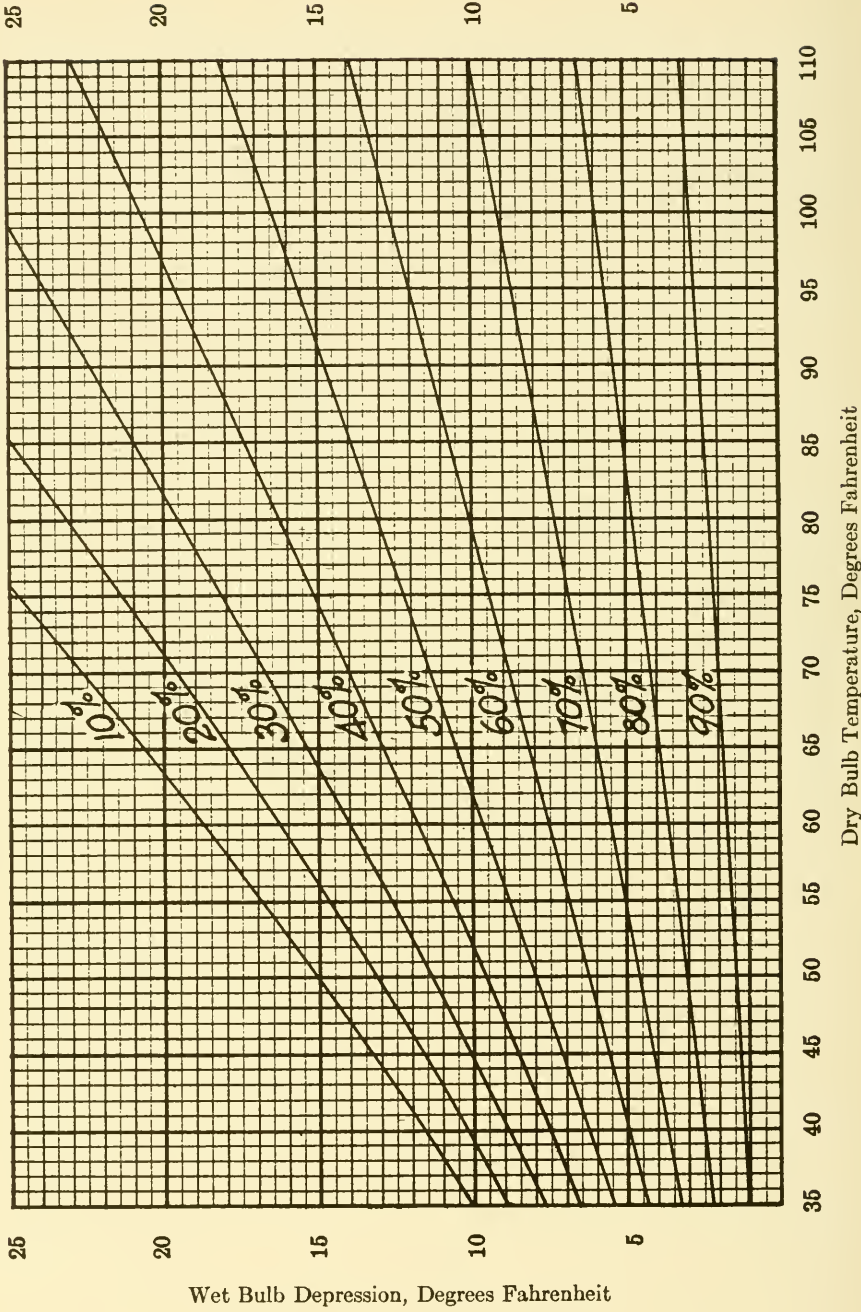
The grades shown above the black lines are deliverable on future contracts made in accordance with section 5 of the United States Cotton Futures Act. Those below the line are untenderable on such contracts.

Absolute Humidity
Grains of moisture per cubic foot
Courtesy Parks-Cramer Company



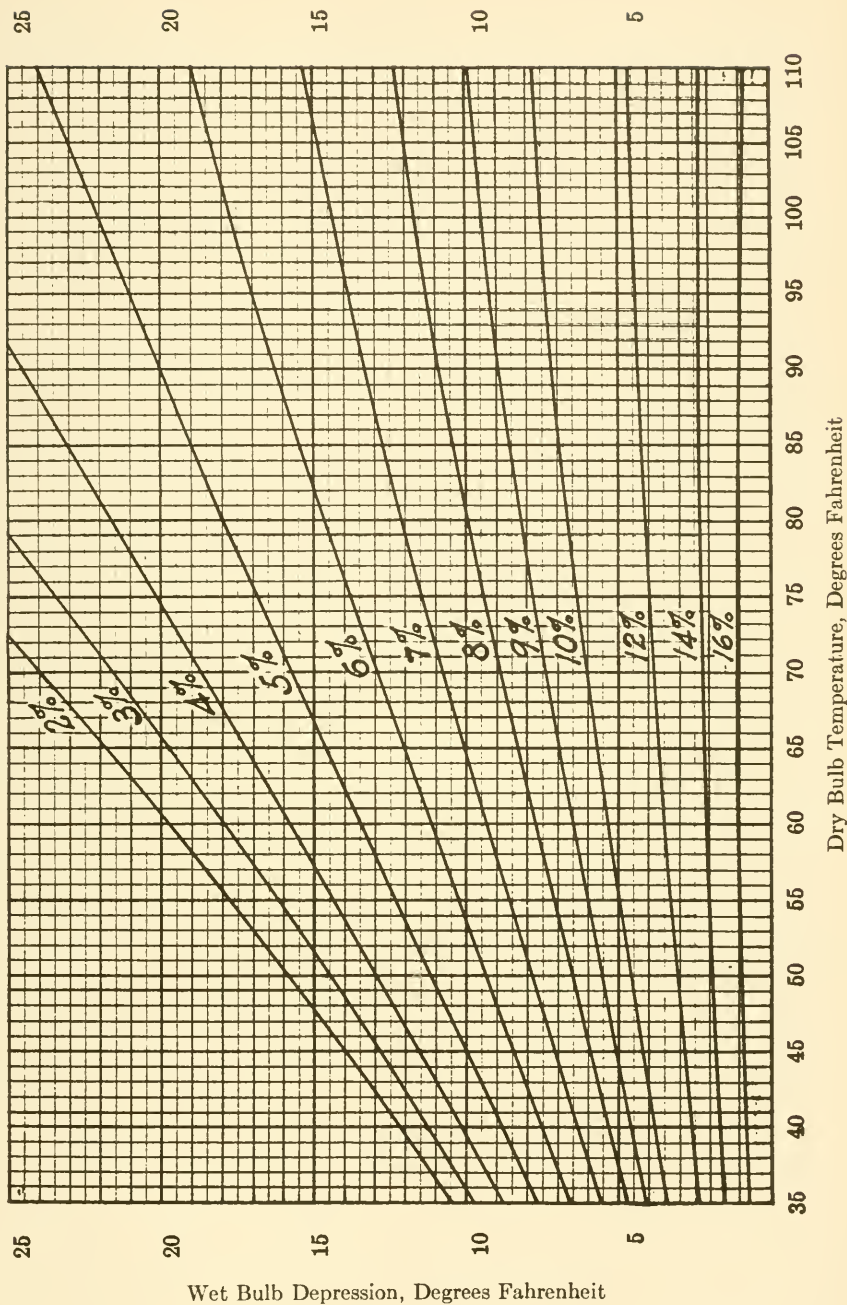
Relative Humidity

Courtesy Parks-Cramer Company



Cotton Regain

Theoretical Regain for Raw Cotton
 Courtesy Parks-Cramer Company



Dry Bulb Temperature, Degrees Fahrenheit

Psychrometric Humidity Table for Use with Sling Psychrometer only

Courtesy Parks-Cramer Company

TEMP OF DRY BULB	Relative Humidities—Large Figures												Actual Humidities—Small Figures													
	WET BULB DEPRESSION																									
	F°	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°
60	100	94	89	83	78	73	68	63	58	53	48	43	39	34	30	26	21	17	13	9	5	1				
61	100	94	89	84	78	73	68	63	58	54	49	44	40	35	31	27	22	18	14	10	7	3				
62	100	94	89	84	79	74	69	64	59	54	50	45	41	36	32	28	24	20	16	12	8	4				
63	100	95	89	84	79	74	69	64	60	55	50	46	42	37	33	29	25	21	17	13	10	6	2			
64	100	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30	26	22	18	15	11	7	4			
65	100	95	90	85	80	75	70	66	61	56	52	48	44	39	35	31	27	24	20	16	12	9	5	2		
66	100	95	90	85	80	75	71	66	61	57	53	48	44	40	36	32	29	25	21	17	14	10	7	3		
67	100	95	90	85	80	75	71	66	62	58	53	49	45	41	37	33	30	26	22	19	15	12	8	5	2	
68	100	95	90	85	80	76	71	67	62	58	54	50	46	42	38	34	31	27	23	20	16	13	10	6	3	
69	100	95	90	85	81	76	72	67	63	59	55	51	47	43	39	35	32	28	24	21	18	14	11	8	5	
70	100	95	90	86	81	77	72	68	64	59	55	51	48	44	40	36	33	29	25	22	19	15	12	9	6	
71	100	95	90	86	81	77	72	68	64	60	56	52	48	45	41	37	34	30	27	23	20	17	13	10	7	
72	100	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38	34	31	28	24	21	18	15	12	9	
73	100	95	91	86	82	78	73	69	65	61	57	53	50	46	42	39	35	32	29	25	22	19	16	13	10	
74	100	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39	36	33	29	26	23	20	17	14	11	
75	100	95	91	86	82	78	74	70	66	62	58	54	51	47	44	40	37	34	30	27	24	21	18	15	12	
76	100	95	91	87	83	78	74	70	66	62	59	55	51	48	44	41	38	34	31	28	25	22	19	16	13	
77	100	95	91	87	83	79	74	71	67	63	59	56	52	48	45	42	39	35	32	29	26	23	20	17	14	
78	100	95	91	87	83	79	75	71	67	63	60	56	53	49	46	43	39	36	33	30	27	24	21	18	15	
79	100	95	91	87	83	79	75	71	68	64	60	57	53	50	46	43	40	37	34	31	28	25	22	19	16	
80	100	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44	41	38	35	32	29	26	23	20	18	
81	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	42	39	36	33	30	27	24	21	19	
82	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	42	39	36	33	30	28	25	22	20	
83	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	34	31	28	25	23	20	
84	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	35	32	29	26	23	21	
85	100	96	92	88	84	80	77	73	69	66	63	60	57	53	50	47	44	41	38	36	33	30	27	25	22	
86	100	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47	44	42	39	36	33	31	28	26	23	
87	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	34	32	29	27	24	
88	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	32	30	27	25	
89	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	33	30	28	25	
90	100	96	92	89	85	81	78	74	71	68	65	61	58	55	52	49	47	44	41	39	36	34	31	29	26	
91	100	96	92	89	85	82	78	75	72	69	66	62	59	56	53	50	48	45	42	40	37	35	33	31	29	
92	100	96	92	89	85	82	78	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	32	30	
93	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	32	30	
94	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	32	30	
95	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	32	30	
96	100	96	93	89	86	82	79	75	72	69	66	63	61	58	55	52	50	47	44	42	39	37	35	33	31	
97	100	96	93	89	86	82	79	75	72	69	66	63	61	58	55	52	50	47	44	42	39	37	35	33	31	
98	100	96	93	89	86	83	79	75	72	69	66	63	61	58	56	53	50	48	45	43	40	38	36	34	32	
99	100	96	93	89	86	83	80	77	73	70	67	64	61	58	56	54	51	49	46	44	41	39	37	35	33	
RELATIVE HUMIDITIES IN PERCENTAGES (40°) ACTUAL HUMIDITIES IN GRAMS OF MOISTURE PER CUBIC FOOT OF AIR																										

Percent cotton regain

11

10

9

8

7

6

5

United States Government General Specification for Textile Materials (Methods of Physical and Chemical Tests)

Circular of the Bureau of Standards, No. 293

I. ATMOSPHERIC CONDITIONS

Physical tests may be made under prevailing atmospheric conditions except in the settlement of disputes where moisture is an influencing factor in tests for breaking strength, thread count, weight, width, length, etc. Such tests shall then be made upon material having normal moisture content, obtained by exposure for at least four hours to an atmospheric condition of 65 per cent relative humidity at 70° F.

The effect of humidity is a decided variable in these tests, depending on the construction, finishing, sizing, etc. In general, a high relative humidity will increase all weight results, and in breaking-strength results will show an increase for vegetable fibers and a decrease for animal fibers. The manufacturer should note the humidity on a sling psychrometer at the time tests are made to establish whether his material conforms to these specifications and take into consideration the above facts.

II. FIBER IDENTIFICATION AND QUANTITATIVE DETERMINATIONS

1. COTTON. — In specifications calling for cotton fibers no further test is needed than the visual examination of the fibers as pulled from the specimen.

2. WOOL. — In specifications calling for all-wool fibers chemical tests shall be made to dissolve all of the wool fibers, leaving the impurities and vegetable fibers as indications of any variations from the all-wool requirements. Place the specimen of about 5 grams in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boil slowly until the wool fibers become gelatinous and dissolve. If, after 10 minutes of boiling, there appear to be present any loose fibers or yarns when stirring with a glass rod, the contents shall be filtered through a fine-mesh wire cloth and the residue washed with warm water. Allow the residue to dry in air, then examine it for its nature and amount. The presence of fibers and of foreign matter in excess of 1 per cent in weight shall be cause for rejection.

3. WOOL AND COTTON MIXTURES. — In specifications calling for wool and cotton mixtures chemical tests shall be made according to the following classification:

(a) With a cotton warp and with no limit as to the proportion of cotton allowed, based on the weight of the material as a whole, the filling shall be separated from the material until a weight of about 5 grams is obtained. The test shall be given as for wool (II, 2).

(b) With a cotton warp and with a limit as to the proportion of cotton allowed, a specimen of about 5 grams shall be weighed and placed in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boiled slowly until the wool fibers become gelatinous and dissolve. After a period of 10 minutes of boiling filter residue through a fine-mesh wire cloth and wash residue with warm water, then dry in air and weigh. The per cent of cotton present shall be calculated by adding 5 per cent of the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

(c) With no mention of where the cotton is to be found and with a limit as to the proportion of cotton allowed, the test shall be carried out as in (b).

4. UMPIRE METHOD FOR WOOL AND FOR WOOL AND COTTON MIXTURES. — In the event of a dispute, the following procedure shall be used: All weighings shall be made after the specimen has been conditioned at 65 per cent relative humidity and 70° F. Weighings shall be made to the nearest milligram or equivalent accuracy. Boil at least a 5 gram specimen in at least 100 times its weight of a 5 per cent solution of sodium or potassium hydroxide contained in an assay flask fitted with a reflux condenser for a period of one hour. Filter the residue on a fine-mesh wire cloth, wash first with warm water, then with a solution of 3 per cent acetic acid, and finally with hot water.

The per cent of cotton present shall be calculated by adding 5 per cent to the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

III. BREAKING STRENGTH, GRAB METHOD (1 x 1 x 3 inches)

Six test specimens 6 inches long by 4 inches wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 1. Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 1. The maximum capacity of the machine shall be such that no break shall occur beyond the limits as shown in Fig. 1. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at start of test. (See Fig. 1.) The inside or back half of each jaw shall be 2 inches or more in width; the other half shall be 1 inch in width. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the test of each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation, the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

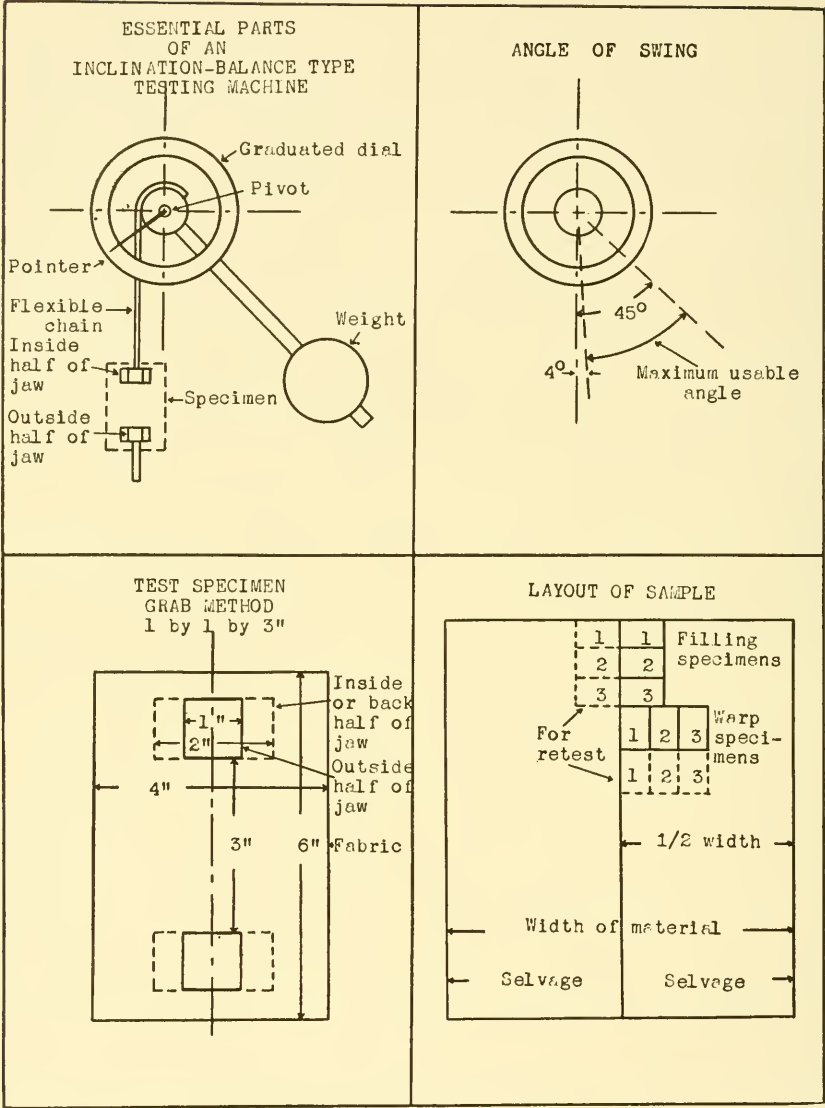


FIG. 1

IV. BREAKING STRENGTH, STRIP METHOD

Six test specimens approximately “*x*” inches (see Table A, Fig. 2) long by “*z*” inches (see Table A, Fig. 2) wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 2.

Each specimen shall be raveled to exactly 1 inch by taking from each side approximately the same number of threads. (See Fig. 2.) Care shall be taken that no two test specimens include the same threads, except for retest, as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 2. The maximum capacity of the machine shall be such that no break shall occur beyond the limits, as shown in Fig. 2. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be “*y*” inches (see Table A) at the start of test. The width of the jaws shall be $1\frac{1}{2}$ inches or more. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the tests in each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

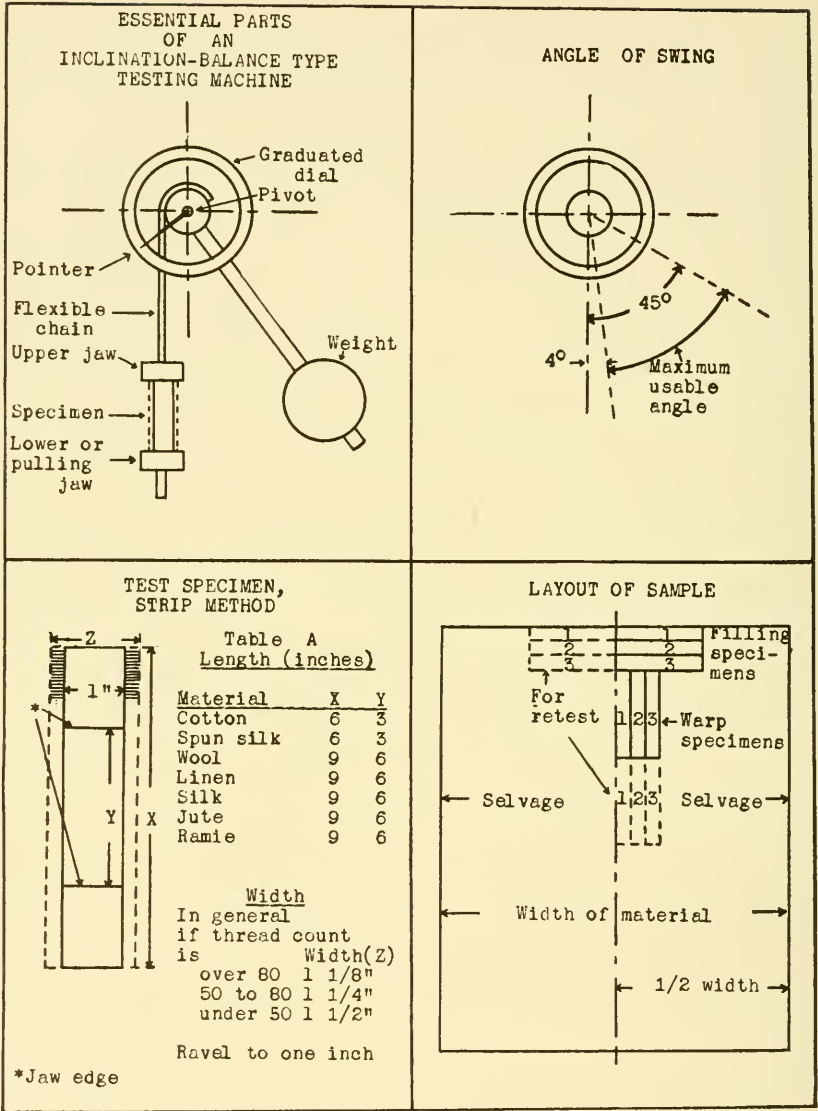


FIG. 2

V. WEIGHT PER SQUARE YARD

The weight per square yard may be determined by any one of the following three methods. In case of dispute, method No. 1 shall be used as an umpire method.

METHOD NO. 1. — Take 1 yard of the sample. Weigh, and if the width is not 1 yard calculate the weight per square yard.

$$\frac{\text{Weight of linear yard}}{\text{Width}} \times 36 = \text{weight per square yard.}$$

Average, 2 tests.

METHOD NO. 2. — Take a measured portion of the material and weigh. Calculate from this area the weight per square yard.

$$\frac{1,296 \times \text{weight of known area}}{\text{Area in inches}} = \text{weight per square yard.}$$

Average, 3 tests.

METHOD NO. 3. — Cut from the sample a specimen 2 by 2 inches, using a steel die. No specimen for testing shall be taken less than 8 inches from either selvage. Weigh on a balance adjusted to read the weight of the material in ounces per square yard.

Average, 3 to 5 tests.

VI. WEIGHT PER LINEAR YARD

The weight per linear yard shall be computed from the weight per square yard, as follows:

$$\frac{\text{Weight per square yard} \times \text{width}}{36} = \text{weight per linear yard.}$$

VII. THREAD COUNT

The actual number of threads in 1 inch of width shall be counted in each direction at three different places in the cloth and the results averaged for each direction. Where the thread count is under 25, the actual number of threads in 3 inches shall be counted for each direction at three different places in the cloth and the results reduced to threads per inch and averaged for each direction. When the size of the sample permits, these counts shall be taken about 6 inches apart. No warp reading should be taken at less than 8 inches from the selvage.

VIII. WIDTH

The width shall be determined by laying the material on a flat surface without tension, then measuring the distance perpendicular to the length from edge to edge to an accuracy of one-sixteenth inch. Three measurements shall be taken at different places in the sample and the results averaged.

Yarn Test Methods

Extracts from American Society for Testing Materials Test Methods¹

BREAKING STRENGTH

Two test methods are given, — the skein test and the single strand test. A preferred and alternative method for each test is given. The alternative method can be used where routine testing is done on a large scale. The preferred method should always be used in case of dispute.

SKAIN TEST (PREFERRED METHOD). — A standard skein (120-yard) shall be broken after conditioning of tubes or bobbins selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). An automatic power yarn tester of inclination balance type, the maximum capacity of which shall be determined in accordance with a table of machine specifications, shall be used. The speed of the pulling jaw shall be 12 inches per minute. Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarns on cones, where the yarn is drawn from the top, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, where the yarn is drawn from the side, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guide on to the reel, the angles of the guides supplying the necessary tension. Judgment must be used in regard to the amount of tension required on yarns having little or a large amount of twist. Three tests from each of four bobbins from every case of yarn shall be made.

SINGLE STRAND TEST (PREFERRED METHOD). — Single strands shall be broken after conditioning the tubes or bobbins for twelve hours in an atmosphere of 65 per cent relative humidity, 70° F. (21° C.). A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 bobbins shall be the average strength.

PLIED YARNS (PREFERRED METHOD). — Plied yarns, except standard tire cord, shall be subjected to the single strand break after conditioning for twelve hours on spools or tubes selected for test, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Standard tire

¹ For complete Methods of Testing and Tolerances, see American Society for Testing Materials Book of Standards.

cord shall be tested under dry conditions in accordance with the Standard General Methods of Testing Woven Textile Fabrics (Serial Designation D 39) of the American Society for Testing Materials.¹ A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 spools or tubes shall be reported as the average strength.

ALTERNATE METHOD. — Skeins of single strands of yarn, either single or plied, prepared in accordance with previous paragraphs, shall be broken under natural humidity conditions at time of test. The results thus obtained shall be reduced to a common basis of standard moisture regain equal to 7 per cent of the bone-dry weight.

MOISTURE REGAIN DETERMINATION. — To determine moisture regain present in samples, the several skeins shall be weighed collectively, immediately after testing, under natural moisture conditions which obtain at the time of test. The skeins shall then be placed in the basket of an oven at a temperature of 105 to 110° C. (221 to 230° F.) and dried to constant weight. The moisture regain is then computed as the percentage of the dry weight.

CORRECTION TO STANDARD REGAIN. — (a) The following formula shall then be applied, based on the assumption that the standard moisture regain of cotton yarns is 7 per cent of the dry weight; that the actual percentage regain is between the limits of 3 and 7 per cent of the dry weight; and that for 1 per cent of moisture regain there is an increase of 6 per cent in the tensile strength of the yarn.

$$\text{Tensile strength corrected to standard moisture regain} = \frac{\text{(Tensile strength from machine reading)} \times 142}{100 + (6 \times \text{actual percentage regain})}$$

(b) Moisture regain tests shall be made periodically during the hours of testing as the natural humidity conditions are found to vary.

STRENGTH CORRECTION TO SIZE. — The average tensile strength shall be corrected to the specified size as determined in accordance with the following paragraphs, by the following formula:

$$\text{Corrected tensile strength} = \text{Actual average strength} \times \frac{\text{Actual average size}}{\text{Specified size}}$$

SIZE OR YARN NUMBER

SIZE OF SINGLE YARNS (PREFERRED METHOD). — The size of all standard skeins used in the skein strength test shall be determined im-

¹ American Society for Testing Materials, 1927 Book of Standards.

mediately after being broken. In case the single strand test is made, the standard skein shall be prepared for the size determination at the time of the break, and the size determined immediately. The balance to be used in this test shall be accurate to 0.25 per cent of the standard size of the yarn. When the balance does not indicate the size directly, the yarn number or size may be calculated from the formula:

$$\text{Yarn number or size} = \frac{\text{Length in yards of single yarn}}{\text{Weight in grains}} \times \frac{7000 \text{ (grains in 1 pound)}}{840 \text{ (yards of No. 1 cotton yarn per pound)}}$$

SIZE OF PLIED YARNS (PREFERRED METHOD). — In determining the size of plied yarns, the skein shall be prepared in accordance with Table I, and the size shall be determined after conditioning of tubes or spools selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarn on cones, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guides on to the reel, the angles of the guides supplying the necessary tension.

TABLE I

EQUIVALENT SINGLES SIZE	Yards for Size	Conversion Formula	Number of Tests Per Case of Yarn
20's and above . . .	60	$\frac{\text{Size}}{2} = \text{ply size}$	3 from each of 4 spools or tubes
3's to 20's	24	$\frac{\text{Size}}{5} = \text{ply size}$	3 from each of 4 spools or tubes
Below 3's	12	$\frac{\text{Size}}{10} = \text{ply size}$	3 from each of 4 spools or tubes

SIZE OF ALL YARNS (ALTERNATE METHOD). — All yarns used in the alternate method of testing for strength shall be sized under natural humidity conditions at the time of test. Plied yarns shall be prepared in skeins in accordance with Table I. The moisture regain shall then be determined and results corrected to a common basis of standard

moisture regain equal to 7 per cent of the bone-dry weight by means of the formula:

$$\text{Size corrected to standard moisture regain} = \frac{\text{Size} \times (100 + \text{actual percentage regain})}{107}$$

The average of these tests shall be the average size of case, bale, ball chain or beam warp of yarn.

TWIST

TWIST OF SINGLE YARNS. — No precision method of determining the twist of single yarns has been developed.

TWIST OF PLIED YARNS. — The ply twist in yarns of two or more ply shall be determined on any standard twist counter with jaws set 10 inches apart. The strands shall be clamped in jaws under a definite tension by attaching weights. The tension to be used shall be determined from the formula:

$$\text{Tension, in grams} = \frac{156 \text{ (Constant)}}{\text{Equivalent singles size}}$$

The constant of 156 represents a tension which should be placed on yarn or cord to hold it sufficiently taut and still not remove any stretch.

NUMBER OF TESTS. — Three twist tests on each of four packages of yarn from each case shall be made, and the average of these twelve tests shall be the average of the case.

Fastness Tests for Dyed or Printed Cotton

Recommended by the American Association of Textile Chemists and Colorists

FASTNESS TO DOMESTIC WASHING, LAUNDERING AND SOAPING

- Test 1 — Fastness to severe washing.
 Test 2 — Fastness to power laundering.
 Test 3 — Fastness to mild washing.
 Test 4 — Fastness to very mild washing.

METHOD OF TEST

Immerse the material, braided with an equal weight of white cotton or sewed on to a piece of white cotton cloth, in a solution of soap and soda of temperature and concentration as indicated below. Treat for thirty minutes; then lift, run through squeeze rolls and rinse well in water at 100° F. till soap and alkali are removed; then dry by hanging in air or dry closet. The soap to be used should be a good grade of 88 per cent chip tallow soap, and the soda ash the standard 58 per cent commercial product. The volume of liquor should be fifty times the weight of the goods. In Test 2, after a preliminary rinse to remove soap, the goods should be treated for ten minutes at 105° F. in 1/20 per cent acetic acid solution, then rinsed again and dried.

Temperature and Concentration

TEST No.	Temperature (Degree)	Soap (Per Cent)	Soda (Per Cent)
1	212	5/10	2/10
2	160	1/10	1/10
3	120	1/10	None
4	90	1/10	None

CLASSIFICATION

Class 1. Excellent. — This test applies to dyed or printed cotton that is to be subjected to the severest form of washing. Colors that stand Test 1 (without appreciable change and without staining white cotton) can be guaranteed fast to washing.

Class 2. Very Good. — This test applies to dyed or printed cotton that is to be washed by power laundries and which should stand treatment as prescribed by the Laundry Owners' National Association. Colors that stand Test 2 can be considered fast to laundering.

Class 3. Good; Commercially Fast. — This test applies to dyed or printed cotton that does not stand Test 1 or 2, but that does possess moderate fastness if washed carefully at a low temperature. It is intended to meet the requirements of a careful home washing. Colors that stand this test can be considered commercially fast.

Class 4. Fair. — This test applies to dyed or printed cotton that does not stand Test 3 but that does nevertheless possess some degree of

fastness. Colors that stand this test only cannot be washed with satisfactory results except by the most careful treatment.

Class 5. Poor; no Fastness to Washing.—This class includes all colors that fail to pass any of the above four tests.

Determination of Sizing

Bureau of Standards Method

1. Heat weighing bottle and lid for a half hour at 100° to 105° C. Place in desiccator until cool, then weigh. *Weight (a)*. (Make this and all other weights herein to the nearest milligram.)

2. Place a specimen of from 3 to 10 grams in the weighing bottle (lid on) and weigh (to nearest milligram). *Weight (b)*.

3. Place in a drying oven maintained at 104° to 106° C. Remove lid of weighing bottle. Dry for five hours.¹

4. Replace lid, place bottle containing specimen in desiccator and allow to cool for at least an hour, then weigh. *Weight (c)*.

5. Repeat 3 except that it shall be dried for one hour instead of five. Repeat 4, obtaining *weight (d)*.

6. If weights (c) and (d) are not within 2 milligrams agreement, repeat 5 until successive weighings are in agreement. Final is *weight (d₁)*.

For cotton materials:

7. Treat in a hot 1 per cent sodium hydroxide solution for one hour. Rinse thoroughly in distilled water.

8. Treat in a hot 1 per cent solution of hydrochloric acid for one hour. Rinse thoroughly in distilled water.

9. Repeat steps 1 to 6, obtaining *weight (d₂)*.

10. Calculations:

$$\frac{d_1 - d_2}{d_1} \times 100 = \text{per cent of sizing.}$$

¹ The loss caused by additional heating after five hours has been shown to be less than 0.01 to 0.02 per cent moisture.

Analysis of Cloth for Tariff Purposes

Treasury Decisions 33823 and 34255

Under the provisions of paragraph 253 the rates of duty are to be ascertained according to the average number of the yarns in the condition in which imported. The length of the yarn is to be counted as equal to the distance covered by it in the cloth, all clipped threads to be measured as if continuous, and all ply yarns to be separated into singles and the count taken of the total singles; any excessive sizing to be removed by boiling or other suitable process. The number of the yarn is the English number of 840 yards to a pound for a No. 1 yarn.

The average number of the yarn may be found without unraveling the fabric, and is the quotient of the division of the total thread length by the weight in the proportion of 840 yards of yarn equaling 1 pound of 7,000 grains or 1 yard of yarn equaling $8\frac{1}{3}$ grains, which is equivalent to a No. 1 yarn.

The following simple formula may be used: Multiply the count of threads per square inch by the number of square inches in the sample used, this product to be multiplied by 100; then divide the product thus obtained by the weight of the sample in grains multiplied by 432. The quotient will give the number of the yarn. For example, take a sample of cotton cloth 4 inches square, which equals 16 square inches, having 28 warp and 28 woof threads, a total of 56 threads to the square inch, and weighing 8.6 grains. The formula applied would be as follows:

$$\frac{56 \times 16 \times 100}{8.6 \times 432} = 24, \text{ the number of the yarn.}$$

The formula may be further simplified by weighing a square yard of said cloth and dividing the number of threads per square inch by $1/300$ of the weight of a square yard in grains.

Samples of all cotton cloth should be forwarded to the United States appraiser at New York on the C. V. R. cards, under the provisions of T. D. 31936. When a square yard or more is available for test the following formula may be used:

$$\frac{\text{Number of threads per square inch} \times 24}{\text{Number of ounces per square yard} \times 35} = \text{Average number of yarn.}$$

An addition of $8\frac{1}{2}$ per cent to be made to bone-dry weight in ascertaining the number of the yarn in cotton cloth.

Breaking Strength of American Yarns spun from American Cotton

By George Draper

120 Yards Weight (Grains)	Number of Yarn	OLD	NEW			120 Yards Weight (Grains)	Number of Yarn	OLD	NEW
		Breaking Weight of Warp Yarn	Breaking Weight of Warp Yarn	Breaking Weight Combed Warp	Breaking Weight Soft Twist Yarn			Breaking Weight of Warp Yarn	Breaking Weight of Combed Warp
1,000	1	—	—	—	—	19.6	51	36.6	47—
500	2	—	—	—	—	19.2	52	36.1	46
333.3	3	530	634+	863—	620+	18.9	53	35.5	45+
250	4	410	476—	646	462	18.5	54	34.9	44+
200	5	330	381	516	367	18.2	55	34.4	43+
166.7	6	275	318—	429+	304—	17.9	56	33.8	42+
142.9	7	237.6	272+	367+	258+	17.5	57	33.4	42—
125	8	209	238+	321	224+	17.2	58	32.8	41—
111.1	9	186.5	212+	285—	198+	17	59	32.3	40+
100	10	168.7	191	256	177	16.7	60	31.7	39+
90.9	11	154.1	174—	232+	160—	16.4	61	31.3	39—
83.3	12	142	159+	213—	145+	16.1	62	30.8	38—
76.9	13	131.5	147+	196	133+	15.9	63	30.4	37+
71.4	14	122.8	137—	182—	123—	15.6	64	30	37—
66.7	15	115.1	128—	169+	114—	15.4	65	29.6	36
62.5	16	108.4	120—	158+	106—	15.2	66	29.2	35+
58.8	17	102.5	113—	149—	99—	14.9	67	28.8	35—
55.6	18	97.3	107—	140+	93—	14.7	68	28.5	34+
52.6	19	92.6	101	133—	87	14.5	69	28.2	34—
50	20	88.3	96	126	82	14.3	70	27.8	33+
47.6	21	83.8	91+	120—	77+	14.1	71	27.4	33—
45.5	22	79.7	87+	114+	73+	13.9	72	27.1	32+
43.5	23	75.9	84—	109+	70—	13.7	73	26.8	32—
41.7	24	72.4	80+	104+	66+	13.5	74	26.5	31+
40	25	69.2	77	100	63	13.3	75	26.2	31—
38.5	26	66.3	74+	96	60+	13.2	76	25.8	30+
37	27	63.6	71+	92+	57+	13	77	25.5	30—
35.7	28	61.3	69—	89—	55—	12.8	78	25.3	29+
34.5	29	59.2	67—	86—	53—	12.7	79	24.9	29—
33.3	30	57.3	64+	83—	50+	12.5	80	24.6	28+
32.3	31	55.6	62+	80—	48+	12.4	81	24.3	28+
31.3	32	54	60+	77+	46+	12.2	82	24	28—
30.3	33	52.6	59—	75—	45—	12.1	83	23.7	27+
29.4	34	51.2	57—	72+	43—	11.9	84	23.4	27—
28.6	35	50	55+	70+	41+	11.8	85	23.2	27—
27.8	36	48.7	54—	68+	40—	11.6	86	22.8	26+
27	37	47.6	52+	66+	38+	11.5	87	22.6	26—
26.3	38	46.5	51	64+	37	11.4	88	22.4	26—
25.6	39	45.5	50—	63—	36—	11.2	89	22.2	25+
25	40	44.6	48+	61	34+	11.1	90	22	25—
24.4	41	43.8	47+	59+	33+	11	91	21.7	25—
23.8	42	43	46+	58—	32+	10.9	92	21.5	24+
23.3	43	42.2	45+	56+	31+	10.8	93	21.3	24—
22.7	44	41.4	44+	55+	30+	10.6	94	21.2	24—
22.2	45	40.7	43+	54—	29+	10.5	95	21	23+
21.7	46	40	42+	53—	28+	10.4	96	20.7	23+
21.3	47	39.3	41+	51+	27+	10.3	97	20.5	23—
20.8	48	38.6	41—	50+	27—	10.2	98	20.4	23—
20.4	49	37.9	40—	49+	26—	10.1	99	20.2	22+
20	50	37.3	39	48	25	10	100	20	22

Breaking Strength of Carded Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	$\frac{3}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$
10	150.5	186.5	218.5	254	—
12	125	153.5	181.5	210	248
14	106	130	154	178	205
16	90	111.5	133	155	176.5
18	78	97.5	116.5	137	156
20	68	85.5	103.5	122.5	140.5
22	59.5	76	92	109	123.5
24	53	69	83	98.5	111.5
26	47.5	62.5	76	89	102
28	43.5	57.5	70	81.5	93
30	40	52.5	64.5	75	86
32	35.5	48	60	69	80
34	33.5	44.5	55.5	64	75
36	30.5	41	51	60	70
38	28	38.5	47.5	56	66
40	25.5	35.5	44	52.5	62
42	23.5	33	41	49	58.5
44	22	30.5	38.5	46	55
46	20	28.5	36	44	52
48	18.5	27	34	41.5	48.5
50	17	25	32	39	46.5
52	16	23.5	30	37	44.5
54	15	22	28.5	35	42.5
56	13.5	20.5	26.5	33.5	40.5
58	12.5	19	25	31.5	38.5
60	11.5	17.5	23.5	30	36.5
62	11	16.5	22	28	34.5
64	10	15.5	21	26.5	33
66	9	14	19.5	25	31
68	8	13	18	23.5	29.5
70	7.5	12.5	17.5	22	28

$$\text{Strength of yarn in pounds} = \frac{1600 (1 + \text{or} - .11a + \text{or} - .01b)}{c}$$

a = Difference in sixteenths of staple over or under one inch. Use + sign when over, — when under.

b = Difference in number of yarn above or below 28s. Use — sign when over 28s, + sign when below 28s.

c = Yarn count.

The above table represents the breaking strength found by testing a great many samples of yarn using the 120 yard skein after conditioning in an atmosphere containing 70 per cent relative humidity.

Breaking Strength of Combed Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	1 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
20	113	132.5	151.5	170	189
22	100	119	136.5	152.5	173
24	90	108.5	125	139.5	157
26	83	98.5	114	128	143.5
28	76.5	90	105	117.5	133
30	70.5	82.5	96	108	121.5
32	64.5	76.5	89	100	112
34	60	71	82.5	94	105
36	56	66.5	77.5	88	99
38	52	61.5	72.5	82	92.5
40	48	57.5	68	77.5	87
42	45	54	64	73	82
44	42	51	60	68.5	77.5
46	39.5	48	57	65	73.5
48	37.5	45.5	53.5	61.5	69
50	35	43	51	58.5	65.5
52	33	40.5	48	55.5	62
54	31	38.5	46	52.5	59
56	29.5	36.5	43.5	50.5	56.5
58	28	34.5	41	47.5	53.5
60	26.5	32.5	39.5	45.5	51
62	25	31	37.5	43.5	49
64	24	29.5	35.5	41.5	47
66	22.5	28	34	39.5	45
68	21.5	27	32.5	38.5	43.5
70	20	26	31	36.5	41.5
72	19	24.5	30	35	40
74	18	23.5	28.5	33.5	38.5
76	17	22.5	27.5	32	37.5
78	16.5	21.5	26.5	31	36
80	15.5	20.5	25.5	30	34.5
82	15	19.5	24.5	28.5	33
84	14	18.5	23	27.5	31.5
86	13	17.5	22	26.5	30.5
88	12.5	17	21	25.5	29.5
90	12	16	20	25	28.5
92	11	15.5	19.5	24	27.5
94	10.5	15	18.5	23	27
96	9.5	14	17.5	22	26
98	9	13.5	17	21	25.5
100	8.5	12.5	16.5	20	24.5
102	8	12	15.5	19.5	23.5
104	7.5	11.5	15	19	22.5
106	7	11	14.5	18	22
108	7	10.5	14	17.5	21.5
110	6.5	10	13.5	17	20.5
112	6	9.5	12.5	16.5	19.5
114	5.5	9	12	16	19
116	5.5	8.5	11.5	15.5	18.5
118	5	8	11	15	17.5
120	4.5	7.5	10.5	14	17

Strength of Combed Yarns computed from formula:

$$\frac{1750 (1 + .11a \pm .01b)}{c} = s$$

c = counts.

s = strength in pounds.

a = difference in sixteenths of staple over one inch.

d = difference in number of yarn above or below 28s, use — sign when over and + sign when under.

Correction Tables for Converting the Apparent Breaking Strength to a 6.5 Per Cent Basis

The "Correction Rates" of strength increase for various fabrics has been computed by Prof. George B. Haven¹ to be as follows:

FABRIC	Weight of Fabric in Ounces per Square Yard at 6 Per Cent Regain	Correction Rate
Cheesecloth	1.54	0.51
Osnaburg	8.10	2.67
Airplane wing fabric	4.00	1.32
Sheeting	5.48	1.81
Tire duck	17.30	5.71
Belt duck	29.10	9.60
Heavy duck	49.34	16.28

Correction tables for three of these fabrics have been made, based on the following formula:

$$\text{Corrected breaking strength} = \frac{\text{Apparent strength} \times [100 + ("X" \times 6.5)]}{100 + ("X" \times \text{actual regain at test})}$$

Where for sheeting X=1.81 for regains between 3 and 9 per cent.

Osnaburg X=2.67 for regains between 3 and 9 per cent.

Tire fabric X=7.0 for regains between 3 and 6.5 per cent.

X=4.0 for regains between 6.5 and 9 per cent.

¹For complete data see National Association of Cotton Manufacturers' Transactions No. 110, pages 117-154.

Correction Table for Converting the Apparent Breaking Strength of Sheet Pile Weighing Approximately 5.5 Ounces per Square Yard to a 6.5 Per Cent Regain Basis

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
35.0	37.1	36.7	36.5	36.4	35.9	35.6	35.3	35.0	34.7	34.4	34.2	33.9	33.6
37.5	39.8	39.4	39.2	38.8	38.4	38.1	37.8	37.5	37.2	36.9	36.7	36.4	36.1
40.0	42.4	42.0	41.7	41.3	41.0	40.7	40.3	40.0	39.7	39.3	39.1	38.8	38.5
42.5	45.1	44.6	44.3	43.9	43.5	43.2	42.9	42.5	42.2	41.8	41.5	41.2	41.8
45.0	47.7	47.3	46.9	46.5	46.1	45.8	45.4	45.0	44.6	44.3	44.0	43.6	43.3
47.5	50.4	49.8	49.5	49.1	48.7	48.3	47.9	47.5	47.1	46.7	46.4	46.0	45.6
50.0	53.0	52.5	52.1	51.7	51.2	50.9	50.4	50.0	49.6	49.2	48.9	48.5	48.1
52.5	55.6	55.2	54.7	54.3	53.8	53.4	53.0	52.5	52.1	51.6	51.3	50.9	50.4
55.0	58.4	57.8	57.3	56.8	56.3	56.0	55.5	55.0	54.6	54.1	53.8	53.3	52.9
57.5	61.0	60.4	59.9	59.4	58.9	58.5	58.0	57.5	57.0	56.6	56.2	55.8	55.3
60.0	63.6	63.0	62.5	62.0	61.5	61.0	60.6	60.0	59.5	59.0	58.6	58.2	57.6
62.5	66.2	65.6	65.1	64.6	64.1	63.6	63.1	62.5	62.0	61.5	61.1	60.6	60.0
65.0	69.0	68.2	67.8	67.2	66.6	66.1	65.6	65.0	64.5	64.0	63.6	63.0	62.4
67.5	71.6	70.8	70.3	69.8	69.2	68.6	68.1	67.5	67.0	66.4	66.0	65.5	64.8
70.0	74.2	73.4	72.9	72.3	71.8	71.2	70.6	70.0	69.5	68.8	68.4	68.0	67.3
72.5	76.8	76.2	75.5	75.0	74.3	73.8	73.2	72.5	71.9	71.3	70.9	70.3	69.7
75.0	79.6	78.8	78.1	77.5	76.9	76.3	75.6	75.0	74.4	73.7	73.3	72.8	72.1
77.5	82.2	81.4	80.7	80.1	79.4	78.8	78.2	77.5	76.9	76.2	75.7	75.2	74.5
80.0	84.8	84.0	83.3	82.8	82.0	81.4	80.7	80.0	79.4	78.7	78.2	77.6	76.9
82.5	87.4	86.6	86.0	85.3	84.5	83.9	83.2	82.5	81.8	81.1	80.6	80.0	79.3
85.0	90.1	89.2	88.6	87.8	87.2	86.5	85.8	85.0	84.4	83.6	83.1	82.4	81.7

Correction Table for Converting the Apparent Breaking Strength of 30-inch 7-ounce Osnaburg to
a 6.5 Per Cent Regain Basis

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
60.0	65.2	64.4	63.6	62.8	62.1	61.4	60.7	60.0	59.2	58.6	58.1	57.3	56.7
62.5	67.8	67.1	66.2	65.4	64.7	63.9	63.2	62.5	61.7	61.0	60.4	59.8	59.1
65.0	70.6	69.8	68.9	68.0	67.2	66.4	65.7	65.0	64.2	63.7	62.9	62.2	61.3
67.5	73.3	72.5	71.6	70.7	69.9	69.0	68.3	67.5	66.7	65.9	65.2	64.5	63.8
70.0	76.0	75.2	74.2	73.3	72.5	71.6	70.8	70.0	69.2	68.4	67.7	66.9	66.2
72.5	78.7	77.9	76.8	75.9	75.0	74.1	73.4	72.5	71.6	70.8	70.2	69.3	68.6
75.0	81.4	80.6	79.5	78.5	77.7	76.8	75.8	75.0	74.0	73.3	72.6	72.7	70.9
77.5	84.2	83.3	82.2	81.1	80.2	79.2	78.3	77.5	76.5	75.7	74.9	74.0	73.3
80.0	86.9	85.9	84.8	83.8	82.8	81.8	80.9	80.0	79.0	78.1	77.4	76.4	75.6
82.5	89.6	88.6	87.5	86.4	85.4	84.4	83.4	82.5	81.5	80.6	79.8	78.9	78.0
85.0	92.2	91.3	90.0	89.0	88.0	87.0	86.0	85.0	84.0	83.0	82.2	81.2	80.3
87.5	95.0	94.0	92.7	91.6	90.6	89.5	88.5	87.5	86.5	85.4	84.6	83.5	82.7
90.0	97.7	96.6	95.4	94.2	93.2	92.0	91.0	90.0	88.8	87.9	87.0	86.0	85.0
92.5	100.4	99.4	98.0	96.9	95.8	94.6	93.5	92.5	91.4	90.3	89.5	88.4	87.4
95.0	103.1	102.0	100.6	99.4	98.4	97.2	96.1	95.0	93.9	92.8	90.0	90.8	89.8

Correction Table for Converting the Apparent Breaking Strength of 17 $\frac{1}{4}$ -Ounce Tire Fabric to a 6.5 Per Cent Regain Basis

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
105	123.7	120.6	117.7	114.9	112.3	109.7	107.3	105.0	103.3	101.7	100.2	98.7	98.3
110	129.6	126.4	123.3	120.4	117.6	115.0	112.4	110.0	108.2	106.4	105.0	103.4	101.9
115	135.5	132.1	128.9	125.9	123.0	120.2	117.5	115.0	113.1	111.5	109.8	108.1	106.5
120	141.4	137.9	134.5	131.0	128.3	125.4	122.6	120.0	118.0	116.3	114.6	112.8	111.1
125	147.3	143.6	140.1	136.8	133.7	130.6	127.8	125.0	122.9	121.2	119.3	117.5	115.8
130	153.1	149.3	145.7	142.3	139.0	135.9	132.9	130.0	127.9	126.0	124.1	122.2	120.4
135	159.0	155.1	151.3	147.8	144.3	141.1	138.0	135.0	132.8	130.8	128.9	126.9	125.1
140	164.9	160.8	156.9	153.2	149.7	146.3	143.1	140.0	137.7	135.7	133.6	131.6	129.7
145	170.8	166.6	162.5	158.7	155.0	151.5	148.2	145.0	142.6	140.5	138.4	136.3	134.3
150	176.7	172.3	168.1	164.2	160.4	156.8	153.3	150.0	147.6	145.4	143.2	141.0	138.9
155	182.6	178.1	173.7	169.6	165.7	162.0	158.4	155.0	153.5	150.2	147.9	145.7	143.6
160	188.5	183.8	179.4	175.1	171.1	167.2	163.5	160.0	158.4	155.0	152.6	150.4	148.3
165	194.4	189.5	185.0	180.6	176.4	172.4	168.6	165.0	163.3	159.9	157.4	155.1	152.9
170	200.3	195.3	190.6	186.1	181.8	177.7	173.7	170.0	168.3	164.7	162.2	159.8	157.5
175	206.1	201.0	196.2	191.5	187.1	182.9	178.9	175.0	172.2	169.6	167.0	164.5	162.2
180	212.0	206.8	201.8	197.0	192.5	188.1	184.0	180.0	177.1	174.4	171.8	169.2	166.8
185	217.9	212.5	207.4	202.5	197.8	193.3	189.1	185.0	182.0	179.2	176.6	173.9	171.4
190	223.8	218.3	213.0	208.0	203.2	198.6	194.2	190.0	186.9	184.1	181.3	178.6	176.1
195	229.7	224.0	218.6	213.4	208.5	203.8	199.3	195.0	191.9	188.9	186.1	183.3	180.7
200	235.6	229.8	224.2	218.9	213.8	209.0	204.4	200.0	196.8	193.8	190.9	188.0	185.3
205	241.5	235.5	229.8	224.4	219.2	214.2	209.5	205.0	201.7	198.6	195.6	192.7	189.9
210	247.4	241.2	235.4	229.8	224.5	219.5	214.6	210.0	206.6	203.4	200.4	197.4	194.6
215	253.3	247.0	241.0	235.3	229.9	224.7	219.7	215.0	211.5	208.3	205.2	202.1	199.2
220	259.2	252.7	246.6	240.8	235.2	229.9	224.9	220.0	216.5	213.1	210.0	206.8	203.8
225	265.1	258.5	252.2	246.3	240.6	235.2	230.0	225.0	221.4	217.9	214.7	211.5	208.4

Correction Table for Converting the Apparent Breaking Strength of 17¹/₄-Ounce Tire Fabric to a 6.5 Per Cent Regain Basis — (Continued)

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
230	270.9	264.2	257.8	251.7	245.9	240.4	235.1	230.0	226.3	222.8	219.7	216.2	213.1
235	276.8	270.0	263.4	257.2	251.3	245.6	240.2	235.0	231.3	227.7	224.4	220.9	217.7
240	282.7	275.7	269.0	262.7	256.6	250.8	245.3	240.0	236.2	232.6	229.2	225.6	222.3
245	288.6	281.4	274.6	268.1	262.0	256.1	250.4	245.0	241.2	237.4	234.0	230.3	226.9
250	294.5	287.2	280.1	273.6	267.3	261.3	255.5	250.0	246.1	242.3	238.7	235.0	231.6
255	300.4	292.9	285.8	279.1	272.7	266.5	260.6	255.0	251.0	247.1	243.5	239.7	236.2
260	306.3	298.7	291.5	284.6	278.0	271.7	265.7	260.0	255.9	251.9	248.3	244.4	240.8
265	312.1	304.4	297.1	290.0	283.4	277.0	270.8	265.0	260.8	256.8	253.0	249.1	245.5
270	318.1	310.2	302.6	295.5	288.7	282.2	276.0	270.0	265.7	262.6	257.8	253.8	250.1
275	323.9	315.9	308.3	301.0	294.0	287.4	281.1	275.0	270.6	266.5	262.6	258.5	254.7
280	329.8	321.7	313.9	306.5	299.4	292.6	286.2	280.0	275.6	271.3	267.4	263.2	259.4
285	335.7	327.4	319.5	311.9	304.7	297.9	291.3	285.0	280.5	276.1	272.1	267.9	264.0
290	341.6	333.1	325.1	317.4	310.1	303.1	296.4	290.0	285.4	281.0	276.9	272.6	268.6
295	347.5	338.5	330.7	322.9	315.4	308.3	301.5	295.0	290.4	285.8	281.7	277.3	273.2
300	353.4	344.6	336.3	328.3	320.7	313.5	306.6	300.0	295.3	290.7	286.4	282.0	277.9
305	359.3	350.4	341.9	333.8	326.1	318.8	311.7	305.0	300.2	295.5	291.2	286.7	282.5
310	365.2	356.1	347.5	339.3	331.5	324.0	316.8	310.0	305.1	300.3	296.0	291.4	287.1
315	371.1	361.3	353.1	344.8	336.8	329.2	321.9	315.0	310.0	305.2	300.7	296.1	291.8
320	376.9	367.6	358.7	350.2	342.2	334.4	327.1	320.0	315.0	310.0	305.5	300.8	296.4
325	382.8	373.3	364.3	355.7	347.5	339.7	332.2	325.0	319.9	314.9	310.3	305.5	301.0
330	388.7	379.1	369.9	361.2	352.8	344.9	337.3	330.0	324.8	319.7	315.1	310.2	305.7
335	394.6	384.8	375.5	366.7	358.2	350.1	342.4	335.0	329.7	324.5	319.8	314.9	310.3
340	400.5	390.6	381.1	372.1	363.5	355.3	347.5	340.0	334.6	329.4	324.6	319.6	314.9
345	406.4	396.3	386.7	377.6	368.9	360.6	352.6	345.0	339.6	334.2	329.4	324.3	319.5
350	412.3	402.1	392.3	383.1	374.2	365.8	357.7	350.0	344.5	339.1	334.1	329.0	324.2

Correction Table for Converting the Apparent Breaking Strength of 17¼-Ounce Tire Fabric to a 6.5 Per Cent Regain Basis — (Concluded)

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
355	418.2	407.8	397.9	388.5	379.6	371.0	362.8	355.0	349.5	343.9	338.9	333.7	328.8
360	424.1	413.6	403.5	394.0	384.9	376.2	367.9	360.0	354.4	348.7	343.7	338.4	333.4
365	429.9	419.3	409.2	399.5	390.3	381.5	373.1	365.0	359.4	353.6	348.4	343.1	338.1
370	435.8	425.0	414.8	405.0	395.6	386.7	378.2	370.0	364.3	358.4	353.2	347.8	342.7
375	441.7	430.8	420.4	410.4	401.0	391.9	383.3	375.0	369.2	363.3	358.0	352.5	347.3
380	447.6	436.5	426.0	415.9	406.3	397.1	388.4	380.0	374.1	368.1	362.8	357.2	351.9
385	453.5	442.3	431.6	421.4	411.7	402.4	393.5	385.0	379.0	372.9	367.5	361.9	356.6
390	459.4	448.0	437.2	426.9	417.0	407.6	398.6	390.0	383.9	377.8	372.3	366.6	361.2
395	465.3	453.8	442.8	432.3	422.3	412.8	403.7	395.0	388.9	382.6	377.1	371.3	365.8
400	471.2	459.5	448.4	437.8	427.7	418.0	408.7	400.0	393.8	387.5	381.8	376.0	370.5

Interpolation Table

1	1.13	1.14	1.12	1.08	1.06	1.04	1.02	1.00	.98	.96	.94	.93
2	2.36	2.28	2.24	2.16	2.12	2.08	2.04	2.00	1.96	1.92	1.88	1.85
3	3.58	3.42	3.36	3.24	3.18	3.12	3.06	3.00	2.94	2.88	2.81	2.78
4	4.72	4.56	4.48	4.32	4.24	4.16	4.08	4.00	3.92	3.84	3.75	3.70
5	5.90	5.70	5.60	5.40	5.30	5.20	5.10	5.00	4.90	4.80	4.68	4.63

Federal Specifications Board — Specifications for Cotton Materials

COMMODITY	Federal Specifications Board Number	Bureau of Standards Number
Absorbent cotton	288	—
Airplane cloth, cotton mercerized, Grade A	258a	C270
Asphalt-saturated woven cotton fabric for waterproofing	294	C287
Bandage, gauze, compressed	298	—
Bandage, plain gauze roller, assorted	299	—
Belting, conveyor (stitched duck)	466	—
Bottle, hot-water, cloth-inserted	220a	C249
Cheesecloth, bleached or semi-bleached	253b	C257
Cheesecloth remnants for wiping purposes	344	—
Cheesecloth, unbleached	252b	C258
Cheesecloth for wiping purposes	251a	C255
Cloths, wiping	260	C267
Cord, sash, cotton braided	528	—
Cotton waste, colored	263a	C263
Cotton waste, white	262a	C262
Denim, blue, indigo (shrunk)	256b	C265
Denim, blue, indigo (unshrunk)	257a	C266
Denim, brown (shrunk)	254b	C256
Denim, brown (unshrunk)	255a	C259
Drill, unbleached	557	—
Duck, cotton, numbered	53	C136
Duck, light weight (army duck, gray)	159	C166
Duck, tent (special construction for bleaching or dyeing, gray)	160	C167
Gauze, plain	289	—
Hose, air brake and signal, and gaskets	43	—
Hose, chemical	47	—
Hose, divers'	44	C289
Hose, fire, cotton rubber lined (couplings and gaskets)	38b	C114
Hose, gas	40b	C290
Hose, gasoline, rubber-metal	136a	C269
Hose, oil suction and discharge	63b	C209
Hose, pneumatic	41b	C307
Hose, spray	45	—
Hose, steam	49b	C268
Hose, tender (corrugated)	46c	C288
Hose, water suction (smooth bore)	50a	C292
Hose, water and wash deck	48b	C291
Hosiery, sizes, measuring	92	—
Oilcloth, table, white	498	C357
Packing, fabric condenser tube	99	—

Federal Specifications Board — Specifications for Cotton Materials — (Concluded)

COMMODITY	Federal Specifications Board Number	Bureau of Standards Number
Packing, rubber, cloth insertion	110a	C236
Percale	556	—
Pillowcases, cotton, bleached	305	C277
Rags, colored cotton, for wiping machinery (sterilized)	259a	C261
Rags, white cotton, for wiping machinery (sterilized)	261a	C264
Ribbons, computing and recording machine	169a	C188
Ribbons, hectograph	168a	C187
Ribbons, typewriter	167a	C186
Ring cushions, cloth-inserted	226a	C254
Rope, cotton	447	C326
Rubber sheeting	233a	C253
Seams, stitches and stitching (price, 20 cents)	384	C283
Shade cloth	555b	—
Shades, window, rollers, slats, cords and accessories	367b	—
Sheeting, cotton, bleached wide	303	C273
Sheeting, cotton, brown	301	C272
Sheeting, cotton, brown wide	302	C278
Sheets, cotton, bleached (medium and high count sheeting)	304	C274
Sleeves, dredging	42	—
Textile materials, general specifications for (methods of physical and chemical tests)	345	C293
Tires, pneumatic, solid rubber and inner tubes	3c	C115
Towels, buck (with woven name)	422	C313
Twine, cotton	530	—
Twine, cotton seine	529	—

Specifications bearing only a Federal Specifications Board number are in mimeograph form and can be obtained upon request from the Federal Specifications Board, Bureau of Standards, Washington, D. C.

Specifications bearing Bureau of Standards circular numbers or other Bureau publication numbers in addition to the Federal Specifications Board number are in printed form and must be purchased from the Superintendent of Documents at the prices indicated. In requesting specifications from the Superintendent of Documents the Bureau publication number must be stated.

The price of each printed specification is 5 cents per copy, unless otherwise noted.

Construction of Standard Fabrics ¹

ALBERTS

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
35.0	5.40	64	72	29.0	39.0
35.0	5.10	64	80	29.0	40.0
35.0	4.40	64	80	28.0	30.0
35.0	4.00	68	80	27.0	29.0

BROADCLOTHS, PLY

35.0	4.50	124	68	2/80	2/110
37.0	4.40	140	76	2/92	2/100
37.0	4.50	144	76	2/100	2/100
37.5	4.00	134	61	2/80	2/80
37.5	4.35	144	80	2/94	2/110
37.5	4.40	158	66	2/100	2/100
37.5	4.50	144	76	2/100	2/100
38.0	4.20	114	71	2/80	2/80
38.5	4.14	150	68	2/100	2/90
40.0	4.25	140	78	2/100	2/100

BROADCLOTHS, SINGLE

35.0	4.00	124	64	35.0	40.0
37.0	4.30	128	60	40.0	45.0
37.0	4.40	112	60	40.0	33.0
37.0	4.40	128	68	44.0	44.0
37.0	4.50	144	76	50.0	50.0
37.5	4.15	144	76	50.0	40.0
37.5	4.50	132	76	50.0	45.0
38.5	4.25	144	76	50.0	45.0
39.0	5.00	144	76	60.0	60.0
43.0	5.40	112	64	60.0	50.0

BROADCLOTHS, SEMI

37.0	3.90	140	70	2/80	45.0
37.0	4.00	120	64	2/80	30.0
37.0	4.00	136	68	2/80	40.0
37.0	4.35	120	64	2/76	36.0
37.0	4.40	124	60	2/80	40.0
37.5	3.75	120	62	2/80	30.0
37.5	4.40	115	64	2/80	40.0
37.5	4.50	144	76	2/100	50.0
37.5	5.00	124	64	2/100	50.0
41.0	4.60	134	57	2/100	50.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹—(Continued)

DRILLS

WIDTH	Weight Yards per Pound	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
30 0	2 50	76	58	14 0	14 0
30 0	2 85	71	48	14 0	14 0
30 0	3 00	66	44	13 0	14 0
30 0	4 00	68	48	20 0	16 0
30 0	5 25	60	40	22 0	18 0
37 0	2 35	68	40	13 0	12 0
37 0	3 00	68	40	13 0	22 0
37 0	3 25	68	40	16 0	16 0
37 0	3 50	68	40	18 0	18 0
37 0	3 95	66	36	18 0	23 0
54 0	1 93	62	40	13 5	15 5

JEANS

29 5	3 75	84	56	21 0	21 0
30 0	4 00	84	56	21 0	27 0
31 5	3 22	96	64	21 0	24 0
32 0	3 31	96	64	22 0	24 5
36 0	3 40	100	64	24 0	36 0
38 0	2 95	96	64	22 0	30 0
38 0	3 15	84	56	21 0	26 0
38 0	2 85	96	64	22 0	26 0
39 0	3 00	96	64	24 0	28 0
58 0	2 25	84	56	22 0	28 0

ORGANDIES

30 0	10 75	96	96	60 0	130 0
33 0	16 00	60	64	80 0	90 0
35 0	10 00	96	100	80 0	100 0
36 0	9 00	112	112	80 0	120 0
36 0	10 66	96	104	80 0	130 0
37 0	8 00	100	124	80 0	100 0
40 0	13 00	72	64	80 0	110 0
40 0	13 50	76	68	80 0	110 0
45 0	11 40	72	68	80 0	110 0
50 0	7 20	88	80	80 0	80 0

PAJAMA CHECKS

28 0	5 71	74	64	34 0	24 0
31 5	7 10	60	52	29 0	38 0
36 5	4 00	88	88	29 0	41 0
36 5	4 70	72	80	30 0	41 0
36 5	5 20	72	66	30 0	40 0
36 5	5 75	64	60	30 0	39 0
37 0	4 00	88	80	30 0	38 0
38 0	4 00	88	80	29 0	42 0
38 0	4 50	76	72	29 0	40 0
38 5	4 60	72	74	28 5	40 0

¹Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹ — (Continued)

PONGEE

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
34.0	7.00	72	100	80.0	41.0
43.0	4.90	76	104	80.0	40.0

POPLINS, SEMI

27.0	7.50	103	46	2/80	36.0
27.0	5.90	104	42	2/60	29.0
28.0	4.65	112	40	2/50	30.0
28.0	4.65	114	38	2/50	30.0
28.0	4.87	102	48	2/50	28.0
28.0	5.27	101	48	2/60	25.0
28.0	5.50	101	48	2/60	30.0
36.0	3.90	96	40	2/50	25.0
37.0	3.40	88	40	2/40	25.0
37.5	4.10	80	40	2/50	21.0

POPLINS, SINGLE

27.00	5.25	100	44	30.0	24.0
27.75	4.60	96	40	24.0	21.0
28.00	5.14	101	48	30.0	25.0
28.50	4.50	118	38	40.0	12.0
28.50	4.52	122	43	50.0	12.0
28.50	4.70	122	40	50.0	12.0
37.00	3.49	100	48	25.0	25.0
37.00	3.95	100	44	30.0	24.0
37.00	4.25	100	44	30.0	30.0
37.50	3.90	100	44	30.0	24.0
37.50	4.00	100	44	30.0	25.0

PRINT CLOTH

28.0	7.30	64	60	30.0	38.0
27.0	7.60	64	60	30.0	38.0
27.0	8.70	56	55	30.0	42.0
27.0	9.00	56	52	30.0	40.0
27.0	9.75	56	44	29.0	41.0
25.0	10.55	56	44	30.0	40.0
32.0	6.50	64	60	30.0	40.0
31.5	7.50	56	52	29.0	39.0
34.0	6.00	64	60	28.0	40.0
36.0	5.75	64	60	30.0	38.0
35.0	5.00	68	72	30.0	37.0
39.0	6.60	56	44	28.0	40.0
40.0	6.00	56	56	29.0	43.7
38.5	6.25	60	48	30.0	40.0
38.5	5.35	64	60	28.0	40.0
39.0	4.75	68	72	30.0	40.0
39.0	4.25	72	76	30.0	37.0
39.0	4.00	80	80	28.0	39.0
43.0	5.60	56	52	29.0	38.0
43.0	5.85	56	48	28.0	41.0
44.0	4.65	64	60	30.0	38.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹—(Continued)

SATEENS, FILLING

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
31.5	5.50	64	88	32.0	37.0
37.5	5.25	64	72	28.0	42.0
37.5	4.70	64	88	29.0	42.0
37.5	4.37	64	104	34.0	38.0
39.0	4.20	64	104	34.0	38.0
39.0	4.00	64	112	28.0	42.0

SATEENS, WARP

29.0	4.20	112	64	28.0	30.0
34.0	3.60	108	60	28.0	26.0
34.0	3.00	112	64	22.0	28.0
38.0	5.09	200	96	70.0	95.0
38.0	6.50	128	68	60.0	70.0
38.0	5.75	140	72	60.0	70.0
38.0	5.75	140	76	60.0	70.0
39.0	5.75	168	88	60.0	100.0
43.0	3.35	160	96	52.0	44.0
54.0	1.05	96	64	13.5	11.0

SHEETINGS, NARROW

30.0	3.60	48	48	14.0	13.5
31.0	5.00	48	48	20.0	20.0
31.0	4.50	44	44	17.0	16.0
32.0	6.25	40	40	20.0	22.0
36.0	6.00	40	40	20.0	23.0
36.0	3.00	48	48	12.0	16.6
36.0	3.25	48	44	13.0	16.0
36.0	3.90	40	38	13.0	16.0
36.0	4.00	48	52	17.0	21.0
36.0	4.00	56	60	20.0	24.0
36.0	4.25	56	56	21.0	25.0
36.0	4.50	48	44	20.0	18.0
36.0	4.70	48	52	22.0	22.0
36.0	5.00	48	48	22.0	23.5
36.0	5.50	48	40	22.0	24.0
36.0	5.50	44	44	21.0	26.0
36.0	6.15	44	40	23.0	26.0
37.0	4.00	48	48	17.0	21.0
36.0	3.50	64	68	21.0	24.0
40.0	2.50	48	48	13.0	13.0
40.0	2.85	48	48	14.0	16.0
40.0	3.60	56	60	20.0	25.0
40.0	3.75	48	44	17.0	21.0
40.0	4.25	44	40	17.0	21.0
40.0	5.00	44	44	21.0	26.0
40.0	5.50	44	44	24.0	27.0
40.0	3.15	64	68	21.0	24.0

¹Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹—(Concluded)**SHEETINGS, WIDE**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
60.0	3.30	48	48	25.0	25.0
60.0	3.90	40	40	22.0	27.0
63.0	1.82	68	72	23.0	21.0
72.0	1.59	68	72	23.0	21.0
81.0	1.40	68	72	23.0	21.0
90.0	1.27	68	72	23.0	21.0
90.0	1.32	66	72	20.5	25.0
90.0	1.45	66	68	23.0	25.0
99.0	1.30	64	68	21.0	25.0
108.0	1.25	56	56	20.0	20.0
156.0	0.76	64	64	20.0	20.0

TOBACCO OR CHEESE CLOTH

36.0	13.50	32	24	30.0	42.0
36.0	13.00	32	28	30.0	43.0
36.0	12.00	32	28	30.0	37.0
36.0	10.50	36	32	30.0	37.0
36.0	10.20	40	32	30.0	38.0
36.0	9.65	40	36	28.0	38.0
36.0	9.20	44	36	29.0	38.0
36.0	9.20	40	40	29.0	40.0
36.0	8.50	44	40	30.0	37.0
36.0	8.10	44	44	29.0	38.0
36.0	7.75	48	44	29.0	38.0

TWILLS, THREE-LEAF FILLING

39.0	4.80	64	72	30.0	38.0
39.0	4.50	68	76	28.0	40.0
39.0	4.25	68	76	28.0	36.0
39.0	4.00	68	76	28.5	31.0
39.0	3.65	80	92	30.0	36.0
43.0	4.00	68	76	30.0	36.0

TWILLS, THREE-LEAF WARP

39.0	6.00	64	48	28.5	44.0
39.0	5.25	64	56	28.5	38.0
39.0	5.10	64	64	28.5	40.0
39.0	3.90	80	80	29.0	39.0
43.0	4.75	68	52	28.0	40.0
43.0	4.30	68	60	28.0	36.0

TWILLS, FOUR-LEAF

29.0	2.15	104	48	15.0	11.0
30.0	2.31	104	48	15.0	12.0
30.0	2.50	104	48	18.0	11.0
30.0	2.65	104	48	18.0	13.0
30.0	2.50	88	48	13.0	15.0
29.5	3.00	88	37	15.0	15.0
29.5	2.00	88	48	13.5	9.0
30.0	2.31	88	48	13.0	13.0
30.0	2.15	88	48	12.0	11.0
30.0	2.10	88	58	12.0	12.0
30.0	3.25	88	38	17.0	15.0
30.0	2.40	88	48	13.0	14.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Standard List of Wide and Sail Duck

The following table shows a list of ducks approved as standard by the Division of Simplified Practice and the Cotton Duck Association
[Pounds per Yard]

Width (inches)	2 0	1 0	1	2	3	4	5	6	7	8	9	10	11	12	Width (inches)
22	1.250	1.187	1.125	1.062	1.000	0.938	0.875	0.812	0.750	0.687	0.625	0.562	0.500	0.437	22
24	1.364	1.295	1.227	1.159	1.091	1.023	0.955	0.886	0.818	0.750	0.682	0.614	0.545	0.477	24
26	—	—	1.329	1.256	1.182	1.108	1.034	0.960	0.886	0.812	0.739	0.665	0.591	0.517	26
28	—	—	1.432	1.352	1.273	1.193	1.114	1.034	0.955	0.875	0.795	0.716	0.636	0.557	28
30	—	—	1.534	1.449	1.364	1.278	1.193	1.108	1.023	0.937	0.852	0.767	0.682	0.597	30
32	—	—	1.636	1.545	1.455	1.364	1.273	1.182	1.091	1.000	0.909	0.818	0.727	0.636	32
36	—	—	1.841	1.739	1.636	1.534	1.432	1.330	1.227	1.125	1.023	0.920	0.818	0.716	36
38	—	—	1.943	1.835	1.727	1.619	1.511	1.403	1.295	1.187	1.080	0.972	0.864	0.756	38
40	—	—	2.045	1.932	1.818	1.705	1.591	1.477	1.364	1.250	1.136	1.023	0.909	0.795	40
42	—	—	2.148	2.028	1.909	1.790	1.670	1.551	1.432	1.312	1.192	1.074	0.955	0.835	42
44	—	—	2.250	2.125	2.000	1.875	1.750	1.625	1.500	1.375	1.250	1.125	1.000	0.875	44
48	—	—	2.454	2.318	2.182	2.045	1.909	1.773	1.636	1.500	1.364	1.227	1.091	0.955	48
50	—	—	2.557	2.415	2.273	2.131	1.989	1.847	1.705	1.562	1.420	1.278	1.136	0.994	50
54	—	—	2.761	2.608	2.455	2.301	2.148	1.994	1.841	1.687	1.534	1.381	1.227	1.074	54
60	—	—	3.068	2.898	2.727	2.557	2.386	2.216	2.045	1.875	1.705	1.534	1.364	1.193	60
66	—	—	3.376	3.187	3.000	2.812	2.625	2.437	2.250	2.062	1.875	1.687	1.500	1.312	66
72	—	—	3.682	3.477	3.273	3.068	2.864	2.659	2.455	2.250	2.045	1.841	1.636	1.432	72
84	—	—	4.296	4.057	3.818	3.580	3.341	3.102	2.864	2.625	2.386	2.148	1.909	1.670	84
90	—	—	4.602	4.347	4.091	3.835	3.580	3.324	3.068	2.812	2.557	2.301	2.045	1.790	90
96	—	—	4.909	4.636	4.364	4.091	3.818	3.545	3.273	3.000	2.727	2.455	2.182	1.909	96
100	—	—	5.114	4.830	4.546	4.261	3.977	3.693	3.409	3.125	2.841	2.557	2.273	1.989	100
108	—	—	5.522	5.216	4.909	4.602	4.295	3.989	3.682	3.375	3.068	2.761	2.455	2.148	108
120	—	—	6.136	5.796	5.455	5.114	4.775	4.432	4.091	3.750	3.409	3.068	2.727	2.386	120
132	—	—	6.750	6.374	6.000	5.624	5.250	4.874	4.500	4.124	3.750	3.374	3.000	2.624	132
144	—	—	7.364	6.954	6.546	6.136	5.728	5.318	4.910	4.500	4.090	3.682	3.272	2.864	144

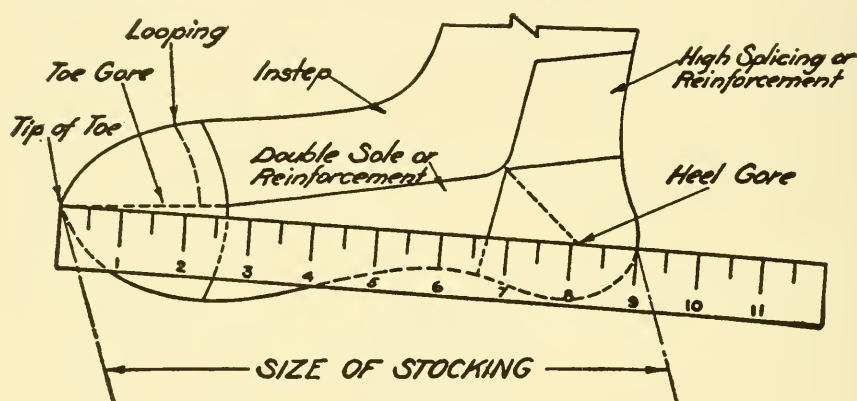
"The numbers in Roman type represent regular fabrics; all others, including widths intermediate to those listed, are specials. Only the list of regular numbers and widths to be carried in stock. Specials will be made up on order only in units of not less than 500 yards; and as far as possible the manufacture of specials will be restricted to units of 1,500 yards as representing the minimum at which operating efficiency is obtainable."

Standard Measurement of Hosiery Sizes

BUREAU OF STANDARDS CIRCULAR NO. 149

The method of measuring the size of circular knit hosiery may be defined as follows: After the hose has been boarded and pressed and appears in a flat and unwrinkled condition, place a ruler along a line in which the tip of the toe and the bottom of the heel gore are connected. The measured distance along this line from the tip of toe to the intersection with the back of the heel to the nearest half inch is the hosiery size. Preference should be given to the lower number; that is, if the exact measurement, as found by the system, is $10\frac{1}{4}$ inches exactly, it is desirable to call the stocking size 10.

Diagram showing application of ruler between the points selected, denoting size.



Approved method for measuring hosiery

This diagram shows the application of ruler to the hosiery

Standard Size of Bed Blankets

COTTON, WOOL, COTTON AND WOOL MIXED

The following sizes of bed blankets were adopted as standard by the Division of Simplified Practice and representatives of the blanket manufacturers on June 2, 1924:

SIZES IN INCHES			
Width	Length	Width	Length
54	76	66	84
60	76	66	90
60	80	68	80
60	84	70	80
64	76	72	84
66	80	80	90

Contract Sales Note for Staple Gray Goods

Form approved and adopted by The National Association of Cotton Manufacturers
and American Cotton Manufacturers' Association, 1910

Sold for account of

To
Quantity:

Quantity:

yards (variation not to exceed 2 % allowed)	} Allowable variation in	
pieces of yards each		length of pieces <i>if</i>
bales of yards each		<i>special.</i>

In addition, buyer to take and seller to deliver if made: $\left\{ \begin{array}{l} \% \text{ Seconds @} \\ \% \text{ Tailings at stated contract price if con-} \\ \% \text{ tract is not renewed.} \end{array} \right.$

Quality:

Time of delivery: from date hereof
 during each week, commencing week ending
 during each month, beginning in the month of

Width in inches:

Count per inch: Warp Filling

Weight: $\left\{ \begin{array}{l} \text{No shipment to average} \\ \text{No bale to be over 1\%} \\ \text{No piece to be over 3\%} \end{array} \right\} \left\{ \begin{array}{l} \text{lighter} \\ \\ \text{heavier} \end{array} \right\} \text{ than } \quad \text{Yards to the pound.}$

Price: _____ Cents per yard.

Terms of payment:

Net _____ days from date of delivery.

Net days from date of delivery less % for payment within
days from date of delivery.

Place of delivery:

F. O. B. to carrier at	with	freight allowance.
------------------------	------	--------------------

F. O. B.

Special conditions:

Shipping instructions:

If the production of the seller shall be curtailed during the time above named, by strikes, lockouts, or unavoidable casualties, the deliveries shall be made and accepted in proportion to the production.

The provisions of paragraphs I, II and III, and the allowable variations from specifications as adopted by The American Cotton Manufacturers' Association and The National Association of Cotton Manufacturers, all as printed on the back hereof,¹ are accepted and agreed to as a part of this contract, unless otherwise stated herein.

This sale note is the entire contract between the buyer and seller, and any alteration in or changes from the printed form of this contract must appear on it in writing.

To _____ (Signed)

¹ See following page.

Paragraph I. Passing of Title on Delivery. — Unless otherwise specified, the title to goods sold passes to the buyer (subject to the right of stoppage *in transitu*): —

a. Upon delivery F. O. B. to carrier, consigned to buyer, and thereafter goods are at buyer's risk.

b. Upon arrival of goods at destination and delivery to buyer of bill of lading or of goods, in the case of goods to be delivered F. O. B. elsewhere than to carrier.

c. Upon delivery of indorsed bill of lading or of goods, in the case of goods consigned to seller's order.

d. Upon the separation of the goods and holding subject to buyer's order (the invoice to follow by due course of mail), in the case of goods to be held or if buyer fails to give shipping instructions.

Paragraph II. Storage and Insurance. — Goods invoiced and held subject to buyer's orders shall be at buyer's risk, but covered by fire insurance effected by sellers in reputable companies.

Paragraph III. Rejections and Claims. — The buyer cannot reject the goods for delay in delivery unless he notifies the seller within five business days from receipt of bill of lading, or of invoice if goods are to be held. When contract calls for delivery in instalments, the buyer cannot cancel the contract for any default in any one or more instalments not amounting to a substantial breach of contract, but may cancel or replace at seller's expense any delivery that is delayed.

Buyer cannot reject goods for defects in quality or other like defaults (a) if he cuts or converts them, nor (b) unless he notifies seller within ninety days from receipt by him or at finishing works of goods not held, or within ninety days after date of invoice if goods are invoiced and held; nor (c) unless such defects amount to a substantial breach of contract.

Loss of right to reject does not deprive the buyer of his right to claim damages, if any; but no recovery shall be had on any claim not made within one year from receipt of goods or from date of invoice if goods are held.

Allowable Variations from Contract Specifications.

Width. — The width shall not vary anywhere by more than $\frac{3}{8}$ of an inch below the stipulated width, nor more than $\frac{5}{8}$ of an inch above. The width shall not be uniformly less than the stipulated width, but must, in a majority of places in each piece, be equal to, or greater than, the stipulated width. Goods shall be measured at right angles to the selvages when laid open on a flat, horizontal surface and smoothed out by hand, but not stretched.

Warp Count. — Except within four inches of each selvege, (where exclusive of the selvege, the count must approximate that stipulated) the number of warp threads per inch shall not vary anywhere by more than one thread per inch below the stipulated count, nor by more than two threads per inch above. The number of threads in each piece must equal the stipulated count multiplied by the stipulated width plus the extra threads used in the selvege.

Filling Count. — The number of threads in the filling, or weft, shall not vary anywhere by more than three threads per inch below the stipulated count, nor by more than four above. In the case of sateens, when the count of filling exceeds the count of the warp, the allowance for variation above specified shall be increased by the same percentage that the filling count exceeds that of the warp count. In any case including sateens, the filling count per inch shall not run below the stipulated count throughout the piece, but must, in a majority of places in each piece, equal or be more than, the stipulated count.

Weight. — In case of controversy regarding the weight of goods, decision shall be based on goods which have been exposed for twenty-four hours to normal atmospheric conditions approximating a temperature of 70 degrees F. and a humidity of 70 per cent.

Identification of Rayons (Artificial Silks)

MICROSCOPICAL METHODS

The individual manufacturer, as well as the process by which rayon or artificial fibers are made, can be determined from a comparison of the cross-sections of the yarn in question with photomicrographs of standard samples. The photomicrographs on page 265 give an illustration of the difference in appearance of the fibers manufactured by the different companies.

CHEMICAL METHODS

(Committee D-13 American Society for Testing Materials)

To distinguish cellulose acetate from all other rayons:

(a) Twist fibers into a tight wad and then cautiously approach to a match flame, without being brought into contact with the flame.

Cellulose acetate rayons melt or fuse, forming a black knob, or globule, on the end, which precedes the small, sputtering, relatively slow-burning flame down the thread. If the flame be extinguished and the knob cooled, this will be found to be somewhat hard and resistant to crushing.

Nitro-cellulose, cuprammonium and viscose rayons do not melt back but burn quietly and readily like bleached cotton fibers, and the odor from the fumes is the same as that coming from burned cotton.

(b) Treat the sample with pure acetone.

Cellulose acetate rayon is soluble up to 1 per cent, while nitro-cellulose, cuprammonium and viscose rayons are insoluble.

(c) Dissolve in glacial acetic acid (water white).

Cellulose acetate rayon dissolves; on adding water, precipitates as milky unstable emulsion or translucent glutinous material.

Nitro-cellulose, cuprammonium and viscose rayons are all insoluble.

To distinguish nitro-cellulose rayons from viscose and cuprammonium rayons:

Treat the water-moistened yarn with a 1 per cent solution of diphenylamine in concentrated sulphuric acid (specific gravity 1.84).

Nitro cellulose rayon immediately assumes a blue color and dissolves in a few seconds, yielding a blue coloration.

Cuprammonium and viscose rayons are not colored blue.

To distinguish cuprammonium rayons from viscose rayons:

Prepare a bath containing 1 per cent of the sample weight of Pontamine Scarlet B or equivalent colors, using one-half gram per 200 cc. of water. Immerse samples into liquor simultaneously, heating to 65° C. for ten minutes. The samples may then be washed thoroughly and compared wet or dry.

The cuprammonium rayons stain heavier and the viscose rayons lighter.

Place 5 grams of the unknown sample of rayon (viscose or cuprammonium) together with 100 cc. of water and 3 cc. of concentrated sulphuric acid, in a flask, the mouth of which is covered with a piece of filter paper saturated with a 10 per cent solution lead acetate, then place the flask over a moderately boiling steam bath for four hours. If at the end of this period the exposed part of the lead acetate paper becomes stained with a brown or black color, the rayon is viscose rayon; if no coloration is obtained the sample is cuprammonium rayon.

Width of Some Standard Fabrics

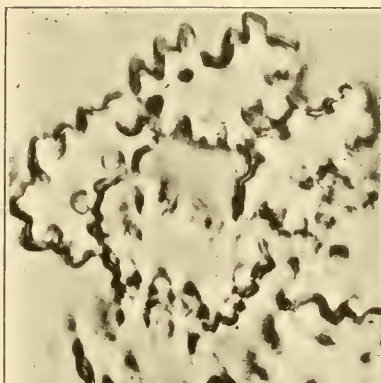
The following is a list of the widths on which the weight of the fabrics listed are based:

	Inches
Single and double filling ducks	29
Enameling ducks	38, 46½, 51½, 61½, 63
Army ducks	28½
Shelter tent duck	35¼
Shoe duck	37
Tire duck	36
Hose duck	40
Rubber belt duck	42
Balata belt duck	36
Oil or stitched belt duck	36
Numbered duck (American)	22
Numbered duck (English)	24
Mitten flannels	33
Ticking	32
Osnaburg	30

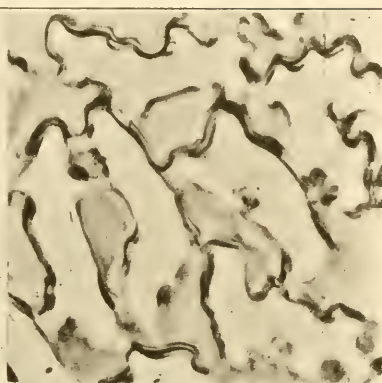
Artificial Fiber Cross-Sections

[Magnification 500]

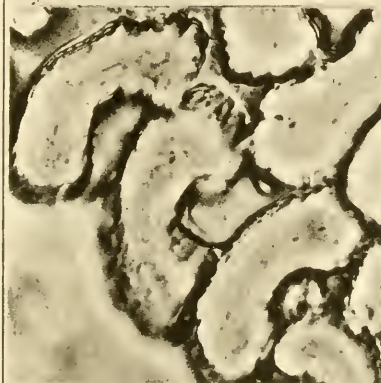
Courtesy of The Cotton Research Company



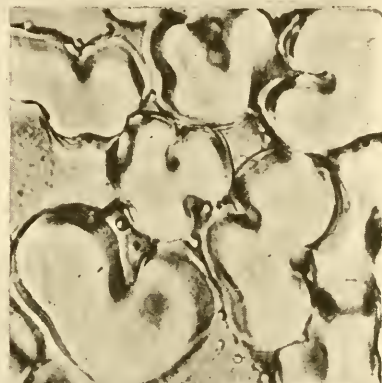
Viscose Process



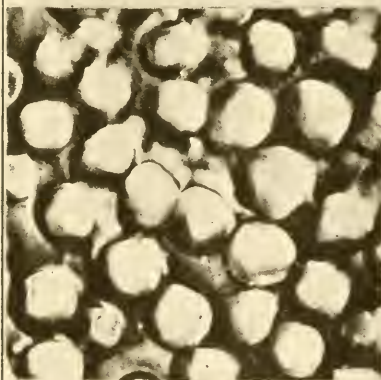
Viscose Process



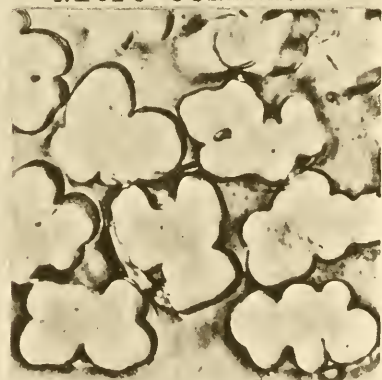
Viscose Process



Nitro-Cellulose



Cuprammonium Process



Acetate Process

Thrown Silk Rules to govern Transactions between Buyers and Sellers in the United States of America

Taken from Rules published by the Silk Association of America

ARTICLE I

General

SECTION 1. Nothing in the following rules shall be construed as waiving the right in individual transactions to make any special contrary agreement, but the rules shall govern in cases where no such special contract exists. . . .

ARTICLE II

Sales

SECTION 1. Sales of specified or identifiable lots of thrown silk, either from stock or for future delivery are cancelled by destruction or loss of such silks by fire, flood or any other causes beyond control of Seller, prior to delivery dates as called for by the contract. . . .

ARTICLE III

Deliveries

SECTION 1. Sales for delivery on a given date, demand delivery on the date specified. . . .

ARTICLE IV

Weights

SECTION 1. In the absence of stipulation as to weight, invoice weight at time of delivery or readiness to deliver at point of shipment shall apply, provided the weight does not exceed conditioned weight on European silks, conditioned weight plus 2% on all other silks, except Tsatlee Rereels, Haining Rereels, Native China Rereels, and other similar silks, which shall be conditioned weight plus 2½%. . . .

ARTICLE V

Boil-Off

SECTION 1. Boil-off percentage stipulations on all kinds of thrown silk are entirely a matter of mutual agreement between Buyer and Seller. . . .

ARTICLE VI

Twist

SECTION 1. In the absence of any twist stipulations, the following turns per inch shall govern all sales of thrown silks made from 13/15 and/or 14/16 denier raw silk:

2-thread Organzine, 16 first time, 14 second time	
3-thread Organzine, 16 first time, 12 second time	
Tram	2½ to 3½
2-thread Georgette Crêpe	65 to 70
Ordinary Crêpes	60 to 65

In the case of all other classes of thrown silk, the twist must be stipulated in contract. . . .

ARTICLE VII

Drammage

SECTION 1. In case of stipulated drammage, the variation above or below the average stated must not exceed 3%. In the case of silks like Tsatlee Rereels, Haining Rereels, Tussah and other similar grades, variation must be by special agreement between Buyer and Seller. . . .

ARTICLE VIII

Length of Skeins

SECTION 1. In the absence of stated length of skeins, the following will apply:

2-thread Organzine	. . .	20,000 yards
3-thread Organzine	. . .	10,000 yards
2-thread Tram	. . .	15,000 yards
3-thread Tram	. . .	10,000 yards
4-thread Tram	. . .	7,500 yards
5-thread Tram	. . .	5,000 yards

The above lengths will apply on thrown silk made from 13/15 and/or 14/16 denier, European, Japan, Canton and China Filature Silks only. On all other grades of thrown silk delivered in skeins, the length is optional with Seller unless stipulated in contract. . . .

ARTICLE IX

Responsibility of Buyer and Seller

SECTION 1. The Seller is under obligation to deliver thrown silks of contract quality, size, weight, etc., as defined in these rules. The Buyer is equally under obligation to examine and test the silk received or tendered for delivery under contract and promptly pass upon its quality, size, weight, etc., and its compliance with the contract. . . .

ARTICLE X

Selling Terms

SECTION 1. The rate of discount on thrown silk is 6 per cent per annum. . . .

ARTICLE XI

General Terms

SECTION 1. All prices are understood to be F. O. B. Seller's shipping point. . . .

OFFICERS AND MEMBERS OF THE ASSOCIATION

OFFICERS OF THE ASSOCIATION FROM THE FIRST ORGANIZATION

PRESIDENTS

EZEKIEL A. STRAW .	1865-78	CHARLES H. FISH .	1901-03
AMOS D. LOCKWOOD .	1878-80	HERBERT E. WALMSLEY	1903-05
JOHN KILBURN .	1880-83	JAMES R. MACCOLL .	1905-07
WILLIAM C. LOVERING .	1883-85	WM. D. HARTSHORNE .	1907-08
RICHARD GARSED .	1885-86	CHARLES T. PLUNKETT	1908-10
JOSEPH S. LUDLAM .	1886-88	FRANKLIN W. HOBBS .	1910-12
HENRY F. LIPPITT .	1888-89	EDWIN F. GREENE .	1912-14
WALTER E. PARKER .	1889-92	ALBERT G. DUNCAN .	1914-16
ROBERT MCARTHUR .	1892-94	ALBERT FARWELL BEMIS	1916-18
EDWARD W. THOMAS .	1894-95	W. FRANK SHOVE .	1918-20
ALFRED M. GOODALE .	1895-96	RUSSELL B. LOWE .	1920-22
ARTHUR H. LOWE .	1896-97	ROBERT AMORY .	1922-24
RUSSELL W. EATON .	1897-98	MORGAN BUTLER .	1924-25
STEPHEN A. KNIGHT .	1898-99	WILLIAM B. MACCOLL	1925-27
FREDERICK E. CLARKE	1899-99	G. EDWARD BUXTON .	1927-
DAVID M. THOMPSON .	1900-01		

VICE PRESIDENTS

WILLIAM A. BURKE .	1865-73	JAMES R. MACCOLL .	1903-05
AMOS D. LOCKWOOD .	1865-77	WM. D. HARTSHORNE .	1903-07
JOHN C. PALFREY .	1873-76	GEORGE A. AYER .	1905-07
EDWARD ATKINSON .	1876-78	CHARLES T. PLUNKETT	1907-08
A. G. CUMNOCK .	1877-80	GEORGE OTIS DRAPER .	1907-11
CHARLES NOURSE .	1878-81	FRANKLIN W. HOBBS .	1908-10
WILLIAM F. GOULDING .	1880-83	EDWIN F. GREENE .	1910-12
RICHARD GARSED .	1881-85	FREDERICK A. FLATHER	1911-13
JOSEPH S. LUDLAM .	1883-86	GEORGE P. GRANT, Jr.	1912-14
WALTER E. PARKER .	1885-89	ALBERT G. DUNCAN .	1913-14
RICHARD B. BORDEN .	1886-88	WILLIAM M. BUTLER .	1914-16
ARNOLD B. SANFORD .	1888-91	GROSVENOR ELY .	1914-16
ROBERT MCARTHUR .	1889-92	W. FRANK SHOVE .	1916-18
SIMEON B. CHASE .	1891-93	RUSSELL B. LOWE .	1916-20
EDWARD W. THOMAS .	1892-94	JAMES THOMSON .	1918-22
ALFRED M. GOODALE .	1893-95	ROBERT AMORY .	1920-22
WILLIAM J. KENT .	1894-97	NATHAN DURFEE .	1922-24
FRED C. McDUFFIE .	1895-00	JOHN SKINNER .	1922-24
HENRY T. WHITIN .	1897-00	RUSSELL H. LEONARD .	1924-27
CHAS. H. RICHARDSON .	1900-01	JOHN A. SWEETSER .	1924-27
GEORGE H. HILLS .	1900-02	PHILIP DANA .	1927-
HERBERT E. WALMSLEY	1901-03	ALFRED E. COLBY .	1927-
ALFRED E. ADAMS .	1902-03		

DIRECTORS

DANIEL D. CROMBIE .	1865-68	RUSSELL W. EATON .	1896-97
JONES S. DAVIS .	1865-69	GEORGE H. HILLS .	1897-00
WILLIAM P. HAINES .	1865-69	CHAS. H. RICHARDSON .	1897-00
PHINEAS ADAMS .	1865-74	JOHN T. MEATS .	1898-01
THOMAS J. BORDEN .	1865-78	GEORGE F. WHITTEN .	1898-04
CHARLES NOURSE .	1865-78	ALFRED E. ADAMS .	1899-02
A. M. WADE .	1868-69	A. TENNY WHITE .	1899-02
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FREDERICK E. CLARKE .	1869-75	HERBERT E. WALMSLEY .	1900-01
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JOHN KILBURN .	1870-80	JAMES R. MACCOLL .	1901-03
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HERVEY KENT .	1877-81	WM. D. PENNELL .	1902-05
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DAVID J. JOHNSTON .	1878-82	GEORGE P. GRANT, Jr. .	1903-12
CHAS. L. LOVERING .	1878-83	GEORGE A. AYER .	1904-05
RICHARD GARSED .	1880-81	C. P. BROOKS .	1904-07
WILLIAM H. JENNINGS .	1880-83	CHARLES T. PLUNKETT .	1905-07
JOHN W. DANIELSON .	1881-85	ROSCOE S. MILLIKEN .	1905-08
WALTER E. PARKER .	1881-85	WILLIAM H. LOFTUS .	1905-10
WILLIAM E. BARROWS .	1882-83	GEORGE OTIS DRAPER .	1906-07
CHAS. D. McDUFFIE .	1883-83	FRANKLIN W. HOBBS .	1906-08
RICHARD B. BORDEN .	1883-86	HENRY F. MANSFIELD .	1906-10
RUFUS A. MAXFIELD .	1883-86	ROBERT BEATTY .	1906-11
GEORGE W. WEEKS .	1883-86	EDWIN F. GREENE .	1907-10
HENRY S. HOWE .	1883-87	JOHN W. KNOWLES .	1907-10
HENRY F. LIPPITT .	1885-88	FREDERICK A. FLATHER .	1907-11
O. S. BROWN .	1885-91	JOSEPH MERRIAM .	1908-11
WILBUR A. STILES .	1886-88	DAVID S. JOHNSTON .	1908-12
ROBERT MCARTHUR .	1886-89	FREDERICK B. MACY .	1910-14
STEPHEN N. BOURNE .	1886-91	ALBERT FARWELL BEMIS .	1910-16
S. S. SPENCER .	1887-90	RUSSELL B. LOWE .	1910-16
EDWARD W. THOMAS .	1888-92	R. M. MILLER, Jr. .	1910-17
WILLIAM W. WHITIN .	1888-93	WILLIAM AMORY .	1911-14
ROBERT R. SMITH .	1889-92	W. FRANK SHOVE .	1911-16
ALFRED M. GOODALE .	1890-93	WILLIAM N. KIMBALL .	1911-17
HERMAN F. STRAW .	1891-93	ALBERT G. DUNCAN .	1912-13
WILLIAM J. KENT .	1891-94	WILLIAM M. BUTLER .	1912-14
FRED C. McDUFFIE .	1892-95	GROSVENOR ELY .	1913-14
GEORGE W. BEAN .	1892-95	WILLIAM A. MITCHELL .	1914-17
FRANK M. MESSENGER .	1893-95	ALEXANDER MAKEPEACE .	1914-18
ALBERT F. KNIGHT .	1893-99	JOHN SULLIVAN .	1914-18
ARTHUR H. LOWE .	1894-96	PHILIP DANA .	1914-20
HENRY T. WHITIN .	1894-97	HERBERT LYMAN .	1916-19
HERBERT L. PRATT .	1895-98	P. Y. DENORMANDIE .	1916-19
STEPHEN A. KNIGHT .	1895-98	JOHN E. ROUSMANIERE .	1916-22
JOHN ECCLES .	1895-99	WILLIAM B. MACCOLL .	1917-18

THOMAS H. RENNIE .	1917-19	ARTHUR R. DICKINSON	1923-25
CHARLES L. GILLILAND	1917-20	R. H. I. GODDARD .	1923-25
ALBERT BLUM .	1918-20	RUSSELL H. LEONARD .	1923-24
FREDERICK L. JENCKES	1918-21	JOHN A. SWEETSER .	1923-24
JOHN SKINNER .	1918-22	ANDREW S. WEBB .	1923-26
J. ARTHUR ATWOOD .	1918-24	C. F. BROUGHTON .	1923-
CHARLES B. CHASE .	1918-23	ALBERT G. MASON .	1924-26
LEWIS DEXTER .	1918-23	W. S. PEPPERELL .	1924-
GROSVENOR ELY .	1918-23	W. IRVING BULLARD .	1924-
CHARLES M. HOLMES .	1918-24	JOHN L. BURTON .	1924-
WILLIAM L. LYALL .	1918-23	JOHN S. LAWRENCE .	1924-
JOHN E. McLOUGHLIN	1919-22	JAMES SINCLAIR .	1924-27
MORGAN BUTLER .	1919-24	E. KENT SWIFT .	1924-
A. W. DIMICK .	1919-24	WILLIAM B. MACCOLL .	1925-25
NATHAN DUFEE .	1920-22	S. HAROLD GREENE .	1925-
SAMUEL STEWART .	1920-23	JAMES O. THOMPSON, Jr.	1925-
E. KENT SWIFT .	1920-23	DEXTER STEVENS .	1925-
ALLEN F. JOHNSON .	1921-22	ERNEST N. HOOD .	1926-
ALFRED E. COLBY .	1922-27	FRED W. STEELE .	1926-
PHILIP DANA .	1922-27	B. H. BRISTOW DRAPER	1927-
B. H. BRISTOW DRAPER	1922-24	JOHN H. HOLT .	1927-
JOHN A. PERKINS .	1922-	CHARLES E. INCHES .	1927-
JAMES THOMSON .	1922-25		

AUDITORS

BENJAMIN SAUNDERS .	1865-71	C. E. ROBERTS .	1900-16
JOHN C. PALFREY .	1871-73	BOYDEN & STEACIE .	1916-19
HENRY D. SULLIVAN .	1873-82	F. W. LAFRENTZ & Co.	1919-
J. HERBERT SAWYER .	1882-00		

SECRETARY AND TREASURER

AMBROSE EASTMAN .	1865-94	C. J. H. WOODBURY .	1894-15
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SECRETARY

TREASURER

C. J. H. WOODBURY .	1915-16	CHARLES H. FISH .	1915-16
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SECRETARY AND TREASURER

CHARLES H. FISH, 1916-17

SECRETARY

TREASURER

RUFUS R. WILSON .	1917-21	HERBERT LYMAN .	1917-18
HARRY C. MESERVE .	1921-25	W. IRVING BULLARD .	1918-
RUSSELL T. FISHER .	1925-		

ALPHABETICAL LIST OF MEMBERS
ACTIVE, ASSOCIATE, HONORARY, JUNIOR TECHNICAL, LIFE,
SUSTAINING, SUSTAINING REPRESENTATIVES
AND TECHNICAL
AS OF JUNE 8, 1928

Ac. — Active As. — Associate Hon. — Honorary Jr. Tech. — Junior Technical S.R. — Sustaining Representative		L. — Life Tech. — Technical Sus. — Sustaining		Elected	
Abercrombie, James H.	Ac.			Apr. 25,	1907
"Rutland," Dorking Rd., Reigate, Surrey, Eng.					
Aberfoyle Mfg. Co.		Sus.		May 22,	1917
Charles L. Gilliland, Treas., 1530 Bankers Trust Bldg., Philadelphia, Pa.					
Acushnet Mill Corp.		Sus.		Nov. 21,	1918
Robert A. Bartlett, Treas., New Bedford, Mass.					
Adam, Alexander E.	Ac.			Apr. 30,	1909
Mgr. Canadian Cottons, Ltd., 429 James St., Hamilton, Ontario, Canada.					
Adams, Edwin W.	Ac.			Apr. 26,	1928
Lewiston Bleachery & Dye Works, Lewiston, Me.					
Adams, Henry Shaw	Ac.			Oct. 4,	1907
Sec.-Treas. The Springstein Mills, P. O. Box 442, Chester, S. C.					
Adams, James A.	Ac.			Oct. 27,	1927
Agent, Butler Mill, New Bedford, Mass.					
Adams, Robert J.	Ac.			Oct. 18,	1923
Pres. Adams Mfg. Co., 31-33 East 32d St., New York City.					
Adams, William T.	Ac.			Feb. 10,	1928
Treas. Adams Bros. Mfg. Co., Adams, Mass.					
Aldrich Brothers Co.		Sus.		Jan. 24,	1919
Charles T. Aldrich, Treas., P.O. Box 1134, Providence, R. I.					
Aldrich, Charles T.	Ac.			Apr. 28,	1886
Treas. Aldrich Brothers Co., P. O. Box 1134, Providence, R. I.					
Algeo, Bradley C.	Ac.			Sept. 21,	1905
Philadelphia Textile School, 320 So. Broad St., Philadelphia, Pa.					
Algonquin Printing Co.		Sus.		Nov. 1,	1918
William H. Jennings, Treas., Fall River, Mass.					
Allen, Fred	Ac.			June 5,	1925
Asst. Mgr. The Textile Development Co., 80 Federal St., Boston, Mass.					
Allen, G. Bion	Ac.			Apr. 27,	1905
Managing Director J. & P. Coats (R. I.), Inc., 117 Mulberry St., Pawtucket, R. I.					
Allen, John E.	Tech.			Apr. 16,	1926
The Textile Development Co., 80 Federal St., Boston, Mass.					
Allen, Lewis F.	As.			Apr. 28,	1910
Treas. Dinsmore Mfg. Co., Salem, Mass.					

			Elected
American Mfg. Co.		Sus.	Nov. 1, 1917
Francis Lynch, Agent, Victory Mills, N. Y.			
American Printing Co.		Sus.	Jan. 7, 1918
Nathan Durfee, Asst. Treas., Fall River, Mass.			
Ames, Allan W.		As.	May 1, 1924
Bankers Trust Co., 16 Wall St., New York City.			
Ames, John Ormsbee		{ L.	Sept. 21, 1900
Goddard Brothers, 50 So. Main St., Providence, R. I.			Sept. 21, 1905
Amory, Browne & Co.		Sus.	Sept. 18, 1917
Robert Amory, 48 Franklin St., Boston, Mass.			
Amory, Frederic		S.R.	Aug. 11, 1917
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.			
Amory, John Austin		S.R.	Oct. 29, 1918
Geo. H. McFadden & Bro., 211 Congress St., Boston, Mass.			
Amory, Robert		S.R.	Sept. 18, 1917
Amory, Browne & Co., 48 Franklin St., Boston, Mass.			
Anderson, Clayton & Co.		Sus.	June 1, 1923
T. A. Davis, 45 Franklin St., Boston, Mass.			
Anderson, Thomas T.		Ac.	Apr. 16, 1926
Treas. Solway Dyeing & Textile Company, Pawtucket, R. I.			
Anderson, Will B.		As.	May 3, 1918
Mgr. Barber-Colman Co., Framingham, Mass.			
Anderson, William D.		Ac.	Apr. 29, 1915
Pres. Bibb Mfg. Co., Macon, Ga.			
Andres, Eugen C.,		As.	Oct. 18, 1900
Eugen C. Andres Co., 20 Central St., Boston, Mass.			
Andres, Frederick H.		As.	Sept. 30, 1914
Treas. Frederick H. Andres, Inc., 45 Milk St., Boston, Mass.			
Andrews, Harold B.		As.	Apr. 16, 1926
J. P. Rhodes Company, 24 N. Main St., Providence, R. I.			
Androscoggin Mills		Sus.	July 23, 1917
Chas. E. Inches, Treas., 77 Franklin St., Boston, Mass.			
Appleton, William C., Jr.		As.	June 14, 1926
The Viscose Company, 1017 Hospital Trust Bldg., Providence, R. I.			
Armitage, Joshua D.		Ac.	Apr. 26, 1906
Taylor, Armitage & Eagles, Inc., 120 Broadway, New York City.			
Arnold, C. H.		Ac.	Apr. 6, 1928
Supt. Suncook Mills, Suncook, N. H.			
Arnold, E. H.		Ac.	May 4, 1920
Asst. Treas. Greylock Mills, North Adams, Mass.			
Ashland Cotton Co.		Sus.	May 12, 1917
Grosvenor Ely, Pres., Norwich, Conn.			
Ashley, Charles S., Jr.		As.	June 2, 1922
Charles S. Ashley & Sons, 11-15 North Sixth St., New Bedford, Mass.			
Ashworth, Henry		As.	Apr. 28, 1897
Ashworth Brothers, Inc., P. O. Box 776, Fall River, Mass.			
Aspden, Thomas		As.	May 5, 1922
Canadian-Connecticut Cotton Mills, Sherbrooke, Quebec, Can.			
Atkinson, E. W.		Ac.	Oct. 27, 1886
Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.			

		Elected
Atteaux, Frederick E.	As.	Apr. 26, 1917
Pres. Frederick E. Atteaux & Co., Inc., 176 Purchase St., Boston, Mass.		
Atwood, J. Arthur	Ac.	Oct. 28, 1891
Treas. Ponemah Mills, 930 Hospital Trust Bldg., Providence, R. I.		
Ayer, Frederick	Ac.	May 1, 1924
Pres. Tremont & Suffolk Mills, 141 Milk St., Boston, Mass.		
Ayer, Nathaniel F.	Ac.	Apr. 25, 1901
Treas. Nyanza Mills, 77 Franklin St., Boston, Mass.		
Babcock, Frederic L.	S.R.	Apr. 6, 1922
Editor, Fibre & Fabric, 465 Main St., Cambridge, Mass.		
Baetjer, Howard	Ac.	May 3, 1918
Pres. Mt. Vernon-Woodberry Mills, 506 Continental Bldg., Baltimore, Md.		
Bailey, C. E.	Ac.	Apr. 6, 1925
Manager, Franklin Weaving Company, Box 94, Franklin, Mass.		
Bailey, Harry L.	Ac.	Oct. 2, 1913
Wellington, Sears & Co., 93 Franklin St., Boston, Mass.		
Bailey, Joseph W.	Ac.	Apr. 23, 1903
Agt. Booth Mfg. Company, New Bedford, Mass.		
Baldwin, James	As.	June 14, 1926
Asst. to Treas. Lorraine Mfg. Company, Pawtucket, R. I.		
Baldwin, Luther C.	As.	Sept. 17, 1910
Pres. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.		
Ballard, Joseph W.	S.R.	Jan. 21, 1918
Treas. Griswoldville Mfg. Co., Griswoldville, Mass.		
Ballard, Walter C.	Ac.	Oct. 20, 1917
Treas. Katama Mills, 78 Chauncy St., Boston, Mass.		
Balmer, John T.	Ac.	June 5, 1925
Supt. Merchants Mfg. Company, Fall River, Mass.		
Bancroft, John, Jr.	Ac.	Aug. 3, 1921
Sales Mgr. Joseph Bancroft Sons Co., 290 Broadway, New York City.		
Banks, Jonas	Ac.	Jan. 6, 1928
New England Southern Mills, 24 Federal St., Boston, Mass.		
Bannon, John F.	Ac.	May 3, 1918
Pres. Defiance Bleachery, Barrowsville, Mass.		
Barber-Colman Co.	Sus.	Sept. 10, 1917
Howard D. Colman, Pres., Rockford, Ill.		
Barker, Harold R.	As.	Apr. 26, 1928
O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.		
Barnard, Elliott H.	Ac.	Apr. 26, 1928
Barnard & Company, 33 Chauncy St., Boston, Mass.		
Barnard Mfg. Co.	Sus.	Nov. 1, 1918
J. Edward Newton, Treas., Fall River, Mass.		
Barnes, Arthur B.	Ac.	Feb. 10, 1928
Supt. Cotton Mills Div., American Printing Co., Fall River, Mass.		
Barnes, Joel M.	As.	Sept. 29, 1911
Barnes Textile Service Co., 101 Milk St., Boston, Mass.		
Barnum, George S.	As.	Apr. 24, 1895
Pres. & Treas. The Bigelow Co., New Haven, Conn.		

			Elected
Barnwell, Elliott H.	Pres. Barnwell & Co., 313 Ohio Bldg., Akron, Ohio.	Ac.	May 3, 1918
Barr, Walwin	6 Odell St., Yonkers, New York.	As.	Apr. 30, 1914
Barrell, William L.	Treas. Lawrence Duck Co., Lawrence, Mass.	Ac.	Apr. 28, 1910
Barrett, D. Emerson	Treas. Maverick Mills, 144 Addison St., East Boston, Mass.	Ac.	Nov. 23, 1925
Barrows, Allan	Treas., Gosnold Mills Co., New Bedford, Mass.	Ac.	July 15, 1922
Bartlett, Edwin N.	Pres. The Edwin Bartlett Co., North Oxford, Mass.	Ac.	Apr. 29, 1891
Bartlett, Robert A.	Treas. Acushnet Mill Corp., New Bedford, Mass.	S.R.	Nov. 21, 1918
Bassett, C. C. Jr.	The Viscose Company, 171 Madison Ave., New York City.	S.R.	Jan. 17, 1927
Batchelder, Nelson A.	Empire Cotton Mills, Ltd., Welland, Ontario, Canada.	Ac.	Sept. 30, 1914
Batchelor, James F.	Supt. Dwight Mfg. Co., Chicopee, Mass.	Ac.	June 8, 1928
Bates, Daniel Moore	Pres. Bates, Inc., 1600 Walnut St., Philadelphia, Pa.	Ac.	Apr. 27, 1898
Bates Mfg. Co.	H. deForest Lockwood, Treas., 60 Congress St., Boston, Mass.	Sus.	Sept. 18, 1917
Bauldry, Lyman C.	Dept. Mgr. The Pairpoint Corp., New Bedford, Mass.	As.	Apr. 5, 1921
Baylies, Lincoln	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac.	June 14, 1926
Baylies, Walter C.	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac.	Oct. 20, 1917
Beacon Mfg. Co.	Charles D. Owen, Treas., New Bedford, Mass.	Sus.	Nov. 7, 1917
Beal, W. DeFord	Cooper & Brush, Inc., 53 State Street, Boston, Mass.	As.	May 1, 1924
Bean, Frank A.	Asst. Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Ac.	Apr. 6, 1923
Beaver Mills	Gurry Ellsworth Huggins, Pres., 79 Worth St., New York City.	Sus.	Apr. 9, 1918
Beede, Herbert G.	97 Cottage St., Pawtucket, R. I.	Ac.	May 4, 1920
Belamose Corporation, The	Earle L. Milliken, Treas. & Gen. Mgr., Rocky Hill, Conn.	Sus.	May 13, 1927
Bell, Colin C.	National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.	As.	Apr. 29, 1896
Belland, Harry D.	Supt. Dominion Textile Co., Ltd., Dominion Cottons Branch, Kings Pk., Verdun, Quebec, Can.	Ac.	Mar. 7, 1924
Bemis, Albert Farwell	Chairman, Bemis Bro. Bag Co., 40 Central St., Boston, Mass.	{ L.	Apr. 23, 1903 Apr. 13, 1911

		Elected
Bemis Bro. Bag Co.	Sus.	June 6, 1917
George N. Roberts, Vice Pres., 40 Central St., Boston, Mass.		
Benjamin, Edward B.	Ac.	May 20, 1919
Treas. E. V. Benjamin Co., Maginnis Cotton Mills, New Orleans, La.		
Bennett, E. Howard	As.	Apr. 30, 1914
American Wool & Cotton Reporter, 530 Atlantic Ave., Boston, Mass.		
Berkshire Cotton Mfg. Co.	Sus.	May 12, 1917
Gilbert T. Thompson, Treas., Adams, Mass.		
Best, Edward H.	As.	Apr. 23, 1903
Edward H. Best & Co., P. O. Box 2207, Boston, Mass.		
Billings, Dwight B.	Ac.	Oct. 14, 1926
Pacific Mills, 24 Federal St., Boston, Mass.		
Billington, L. A.	Ac.	Apr. 6, 1925
Agent, Fort Dummer Mills, Brattleboro, Vermont.		
Bishop, Frederick H.	As.	Apr. 26, 1900
Universal Winding Co., 95 South St., Boston, Mass.		
Bishop, Robert	Ac.	Apr. 26, 1906
Treas. Robert Bishop Mfg. Co., 157 W. Sixth St., So. Boston, Mass.		
Biswas, Kshitish Chandra	Jr. Tech.	June 8, 1928
New Bedford Textile School, New Bedford, Mass.		
Blake, Charles R.	Ac.	Sept. 21, 1905
19 Harrison St., Taunton, Mass.		
Blake, Edmund E.	As.	Oct. 2, 1902
Saco-Lowell Shops, Biddeford, Me.		
Blake, Francis P.	As.	May 3, 1921
Bay State Belting Co., 349 Congress St., Boston, Mass.		
Blanchard, Fessenden S.	Ac.	Oct. 5, 1920
Asst. to Treas. Pacific Mills, 24 Federal St., Boston, Mass.		
Blum, Albert	S.R.	Feb. 12, 1918
Treas. United Piece Dye Wks., Lodi, N. J.		
Boardman, Richard	Ac.	Sept. 11, 1912
Supt. Osborn Mills, Fall River, Mass.		
Bogert, Theodore P.	As.	Apr. 13, 1911
Sec. Mrs. Mut. Fire Ins. Co., Providence, R. I.		
Bolinger, John	As.	Dec. 12, 1918
Vice Pres. National Shawmut Bank, Boston, Mass.		
Bolton, Wright, Jr.	Ac.	April 15, 1927
Acushnet Mill Corp., New Bedford, Mass.		
Booth, Joseph W.	Ac.	Apr. 25, 1907
Supt. Auburn Woolen Co., Auburn, N. Y.		
Boott Mills	Sus.	July 17, 1917
Frederick A. Flather, Treas., Lowell, Mass.		
Borden, Bertram H.	Ac.	May 3, 1918
Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City.		
Borden, Charles N.	Ac.	Apr. 25, 1907
Treas. Richard Borden Mfg. Co., Fall River, Mass.		
Borden, Jefferson, Jr.	Ac.	May 3, 1918
Fall River Bleachery, Fall River, Mass.		
Borden, Richard Mfg. Co.	Sus.	July 17, 1917
Charles N. Borden, Treas., Fall River, Mass.		

	Elected	
Borden, Spencer, Jr. Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass.	Ac.	Apr. 27, 1916
Boston Mfg. Co. James H. Whitehead, Treas., 48 Franklin St., Boston, Mass.	Sus.	May 31, 1917
Bourne Mills George Delano, Treas., Fall River, Mass.	Sus.	May 1, 1920
Boutelle, Eugene G. Lybrand Ross Bros. & Montgomery, 80 Federal St., Boston, Mass.	As.	July 30, 1926
Bowen, Amos Miller Treas. U. S. Ring Traveler Co., 159 Aborn St., Providence, R. I.	As.	Apr. 6, 1923
Bowen, Elmer L. Agt. Appleton Co., Anderson, S. C.	Ac.	Oct. 29, 1918
Bowler, Laurence R. 77 Franklin St., Boston, Mass.	Ac.	June 1, 1923
Bowne, Garrett D., Jr. Westinghouse Elec. & Mfg. Co., 10 High St., Boston, Mass.	As.	Apr. 29, 1911
Boyd, Forest W. Nyanza Mills, Woonsocket, R. I.	Ac.	Oct. 27, 1927
Boyd, George A. Treas. Appleton Co., P. O. Box 2284, Boston, Mass.	Ac.	May 3, 1920
Boyd, John Schofield John S. Boyd Co., Water St., Williamstown, Mass.	Ac.	Sept. 23, 1909
Boyd, William V. Mgr. Canadian Cottons, Ltd., Cornwall, Ontario, Canada.	Ac.	Apr. 26, 1906
Boys, Robert W. Supt. Cotton Division, Farr Alpaca Company, Holyoke, Mass.	Ac.	June 14, 1926
Bradbury, James W. The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	Apr. 16, 1926
Bradbury, Thomas Supt. Wamsutta Mills, New Bedford, Mass.	Ac.	May 3, 1918
Bradley, Walter H. Treas. Hill Mfg. Company, 89 State St., Boston, Mass.	Ac.	Apr. 28, 1910
Bradstreet, Harry S. Harry S. Bradstreet, Inc., 201 Devonshire St., Boston, Mass.	As.	Oct. 14, 1926
Brady, Chas. E. Treas. Potomska Mills Corp., New Bedford, Mass.	S.R.	Nov. 21, 1918
Brady, Frank A. Supt. Stevens Mfg. Co., 914 Rock St., Fall River, Mass.	Ac.	Oct. 20, 1917
Bragdon, Lord & Nagle Co., Inc. Henry G. Lord, Pres., 65 Franklin St., Boston, Mass.	Sus.	Mar. 1, 1918
Brayton, Frank L. Sales Mgr. Fitchburg Yarn Co., Fitchburg, Mass.	Ac.	Nov. 13, 1924
Brayton, Israel Treas. Lincoln Mfg. Co., Fall River, Mass.	S.R.	July 30, 1917
Brierley, Joseph H. Wm. H. Lorimer & Sons Co., Ontario and Lawrence Sts., Philadelphia, Pa.	Ac.	Sept. 21, 1905
Briggs, George T. Pres. & Gen. Mgr. The Briggs Mfg. Co., Voluntown, Conn.	Ac.	Apr. 24, 1902
Brightman, Donald J. Asst. to Mgr. The Ninigret Co., 32 Central Ave., Pawtucket, R. I.	Ac.	June 1, 1923

		Elected	
Brighton Mills		Sus.	July 25, 1917
William L. Lyall, Chairman of Board, Passaic, N. J.			
Broadbent, James T.		Ac.	Apr. 28, 1904
Pres. & Gen. Mgr. Standard Textile Products Co., 320 Broadway, New York City.			
Bromley, Ernest		Ac.	Apr. 28, 1910
Agt. Whitman Mills, New Bedford, Mass.			
Bromley, Joseph H.		Ac.	Sept. 21, 1905
Chairman, Quaker Lace Co., Philadelphia, Pa.			
Brooks, Clarence B.		Ac.	May 13, 1927
Vice Pres. Utica Steam and Mohawk Valley Cotton Mills, Chad- wicks, N. Y.			
Broughton, C. F.		Ac.	Oct. 20, 1917
Treas. Wamsutta Mills, New Bedford, Mass.			
Brown, Charles N.		Ac.	Oct. 29, 1918
Pres. & Treas. The Lincoln Cotton Mill Co., Evansville, Ind.			
Brown, Frederick R.		Ac.	Sept. 21, 1925
Du Pont Rayon Company, Park Ave. Bldg., New York City.			
Brown, George G.		As.	Dec. 27, 1918
Treas. The David Brown Co., Foster & Market Sts., Lawrence, Mass.			
Brown, M. R.		S.R.	Aug. 12, 1918
Treas. Davol Mills, Fall River, Mass.			
Brown, Stuart F.		As.	Mar. 2, 1922
Agt. Whitinsville Spinning Ring Co., Whitinsville, Mass.			
Bryant, Fred C.		As.	May 1, 1924
Curtis & Marble Machine Co., 200 Fifth Ave., New York City.			
Buckley, Charles E.		Ac.	Apr. 26, 1917
Supt. Gosnold Mills Co., 24 Jenny Lind St., New Bedford, Mass.			
Buckley, William H.		Ac.	Apr. 30, 1909
Mfg. Agt. The Baltic Mills Co., Baltic, Conn.			
Bucklin, Harris H.		S.R.	Oct. 29, 1918
Asst. Treas. Interlaken Mills, Phenix, R. I.			
Budlong, Frederick R.		Ac.	Apr. 24, 1923
Supt. Coventry Co., Anthony, R. I.			
Bullard, W. Irving		Ac.	Sept. 11, 1912
80 Federal St., Room 1042, Boston, Mass.			
Bunker, Gordon		Ac.	Oct. 14, 1926
H. M. Bunker & Co., 56 Worth St., New York City.			
Burgess, Robert		Ac.	Apr. 27, 1892
3 Bradford Court, Newton Centre, Mass.			
Burnham, Alfred H.		Ac.	Apr. 26, 1900
P. O. Box 38, Station F, Baltimore, Md.			
Burnham, Hervey		Ac.	Apr. 27, 1899
P. O. Box 503, Suncook, N. H.			
Burns, Alfred		Ac.	Oct. 29, 1918
Asst. Supt. West Boylston Mfg. Co., Easthampton, Mass.			
Burns, William H.		Jr. Tech.	Jan. 17, 1927
19 Buckley St., Fall River, Mass.			
Burton, Harry H.		Ac.	June 14, 1926
Agt. Slater Mills, Inc., Webster, Mass.			
Burton, John L.		Ac.	Apr. 23, 1903
Agt. Nashawena Mills, New Bedford, Mass.			

		Elected	
Butler, Arthur Cecil	As.	Apr. 28, 1904	
Leigh & Butler, 232 Summer St., Boston, Mass.			
Butler Mill	Sus.	Oct. 6, 1921	
Morgan Butler, Treas., 77 Franklin St., Boston, Mass.			
Butler, Morgan	Ac.	Apr. 30, 1914	
Treas. Butler Mill, 77 Franklin St., Boston, Mass.			
Butler, Obadiah	Ac.	Sept. 13, 1906	
Connecticut Mills Co., Danielson, Conn.			
Butler, William M.	Ac.	Apr. 28, 1910	
Pres. Butler Mill, 77 Franklin St., Boston, Mass.			
Butterworth, Harry W.	As.	Oct. 28, 1897	
Pres. H. W. Butterworth & Sons Co., York & Cedar Sts., Philadelphia, Pa.			
Butterworth, H. W., & Sons Co.	Sus.	Sept. 12, 1917	
Harry W. Butterworth, Pres., Philadelphia, Pa.			
Butterworth, Samuel T.	Ac.	Sept. 21, 1905	
Agt. The Lawton Mills Corp., Plainfield, Conn.			
Buxton, G. Edward	Ac.	Apr. 24, 1923	
Pres. B. B. & R. Knight Corp., 715 Hospital Trust Bldg., Providence, R. I.			
Buzzell, William O.	Ac.	Oct. 27, 1927	
Agt. Wamsutta Mills, New Bedford, Mass.			
Cadwell, William H.	Ac.	Apr. 26, 1900	
Agt. Nashua Mfg. Co., Jackson Mill, Nashua, N. H.			
California Cotton Mills Co.	Sus.	Feb. 8, 1921	
J. R. Millar, Gen. Mgr., Oakland, Calif.			
Campbell, N. S.	Ac.	Apr. 16, 1926	
Treas. National Rhea Co., 1015 Hospital Trust Bldg., Providence, R. I.			
Carpenter, Chester W.	Ac.	May 1, 1924	
Agt. John Farnum Co., Lancaster, Pa.			
Carpenter, Frank L.	Ac.	May 3, 1918	
Treas. Davis Mills, Fall River, Mass.			
Carpenter, Lewis M.	Ac.	Apr. 7, 1919	
Treas. Ashland Cotton Co., Jewett City, Conn.			
Cartledge, Francis J.	Ac.	Nov. 10, 1922	
Durham Hosiery Mills, Durham, N. C.			
Catterall, John	Ac.	Apr. 16, 1926	
Agt. New Bedford Spinning Company, New Bedford, Mass.			
Chace, Arnold B.	Ac.	Apr. 26, 1906	
Treas. Valley Falls Co., Albion, R. I.			
Chace, Benjamin C.	Ac.	Sept. 21, 1905	
Gen. Mgr. Crown Mfg. Co., Pawtucket, R. I.			
Chace, Richard B.	S.R.	Dec. 3, 1918	
Treas. Shawmut Mills, Fall River, Mass.			
Chapman, Laurance D.	S.R.	Mar. 7, 1924	
Asst. Treas. Hill & Cutler Co., New Bedford, Mass.			
Chapman, Robert	Ac.	Apr. 13, 1911	
Pres. Cherew Cotton Mills, Inc., Cherew, S. C.			
Charlton Mills	Sus.	Jan. 14, 1919	
James Sinclair, Treas., Fall River, Mass.			

		Elected
Chase, Charles A.	As.	June 2, 1922
Mgr. Industrial Dept., General Electric Co., 84 State St., Boston, Mass.		
Chase, Charles B.	Ac.	Apr. 17, 1908
Gen. Mgr. Stevens Mfg. Co., P. O. Box 45, Fall River, Mass.		
Chase, Fred L.	As.	Mar. 2, 1923
F. A. Chase & Co., 253 West Exchange St., Providence, R. I.		
Chase, Simeon B.	Ac.	Apr. 21, 1875
Treas. King Philip Mills, Fall River, Mass.		
Chicopee Mfg. Corp.	Sus.	Sept. 12, 1917
Charles A. McCormick, Treas., New Brunswick, N. J.		
Chidsey, John T.	As.	June 15, 1923
Pres. & Treas. The Root Co., Church St., Bristol, Conn.		
Church, B. LeBaron	Ac.	Nov. 13, 1924
Sales Mgr. New Bedford Cotton Waste Co., 43 Church St., New Bedford, Mass.		
City Mfg. Corp.	Sus.	July 17, 1917
John B. Strongman, Treas., New Bedford, Mass.		
Clark, Avery B.	Ac.	Apr. 27, 1905
Supt. Merrimack Mfg. Co., Lowell, Mass.		
Clark, George P.	Ac.	Apr. 16, 1926
Pres. Columbia Narrow Fabric Co., Shannock, R. I.		
Clayton, William L.	{ L.	June 1, 1923 June 1, 1923
Anderson, Clayton & Co., Houston, Tex.		
Clexton, Thomas J.	As.	Sept. 13, 1906
Mgr. A. Klipstein & Co., 285 Congress St., Boston, Mass.		
Coates, J. & P. (R. I.), Inc.	Sus.	Oct. 27, 1927
G. Bion Allen, Managing Dir., Pawtucket, R. I.		
Coates, Wallace B., Jr.	Ac.	May 3, 1918
Agt. Farwell Bleachery, North Andover, Mass.		
Cobb, F. S.	Ac.	June 5, 1925
Pres. Seamans & Cobb Thread Co., Hopkinton, Mass.		
Cobb, W. C.	Ac.	Apr. 26, 1906
Supt. Ware Shoals Mfg. Co., Ware Shoals, S. C.		
Coburn, James E.	Ac.	Oct. 4, 1907
Agt. Androscoggin Mills, Lewiston, Me.		
Coffin, Langdon	Ac.	Sept. 29, 1911
Purchasing Agt. Samson Cordage Wks., 144 Bellevue Ave., Newton, Mass.		
Coffin, Melvin H.	As.	Oct. 2, 1902
National Ring Traveler Co., Providence, R. I.		
Colby, Alfred E.	Ac.	Apr. 6, 1922
Asst. Treas. Pacific Mills, 24 Federal St., Boston, Mass.		
Coleman, Philip F.	S.R.	Oct. 5, 1923
Sec. John Farnum Co., Philadelphia, Pa.		
Collins, John A.	Ac.	Apr. 6, 1928
Supt. Suncook Mills, Suncook, N. H.		
Colman, Howard D.	As.	Apr. 27, 1905
Pres. Barber-Colman Co., Rockford, Ill.		
Colquhoun, M. W.	Ac.	Aug. 3, 1921
Box 1587, Boston, Mass.		

		Elected
Comins, Frank B.	Gen. Mgr. American Moistening Co., 79 Milk St., Boston, Mass.	Ac. Oct. 28, 1891
Cook, Albion C.	Treas. Wampanoag Mills, Fall River, Mass.	Ac. Nov. 10, 1922
Cook, Edward H.	Treas. Quissett Mills, New Bedford, Mass.	Ac. Apr. 28, 1910
Cook, G. Arthur	Asst. West Boylston Mfg. Co., 265 Main St., Easthampton, Mass.	Ac. Apr. 25, 1907
Cook, Kenneth B.	Manville Jenekes Co., Pawtucket, R. I.	As. July 15, 1922
Cooley, Fred A.	Supt. Atlantic Mills, 112 Warrington St., Providence, R. I.	Ac. Apr. 30, 1909
Coolidge, Amory	Asst. Treas. Pepperell Mfg. Co., P. O. Box 5075, Boston, Mass.	Ac. Oct. 14, 1925
Coon, J. L.	Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	As. May 3, 1918
Cooper, Archie C.	Sales Dir. Oliver Johnson & Co., Inc., New Bedford, Mass.	As. Oct. 27, 1927
Cooper, James A.	Whitin Machine Works, Whitinsville, Mass.	As. Sept. 13, 1906
Cooper, James M.	30 Stillwater Ave., Providence, R. I.	Jr. Tech. Jan. 17, 1927
Corn Products Refining Co.	Charles P. Slocum, 47 Farnsworth St., Boston, Mass.	Sus. Mar. 2, 1918
Cornell Mills	Robert W. Zuill, Treas., Fall River, Mass.	Sus. July 20, 1918
Corr, Peter H.	Treas. Greenwich Bleachery, Taunton, Mass.	Ac. Apr. 24, 1895
Cottrell, B. S.	Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.	As. May 3, 1918
Couper, Archibald W.	Agt. Paul Whitin Mfg. Co., Rockdale Mills, Northbridge, Mass.	Ac. Oct. 29, 1918
Covel, Thomas D.	Pres. The Covel & Osborne Co., Fall River, Mass.	Ac. Apr. 26, 1906
Cowell, Richard	Agt. Greylock Mills, A. B. C., 33 Southworth Ave., Williamstown, Mass.	Ac. Apr. 24, 1902
Coxen, Harold M.	Hoosac Cotton Mills, North Adams, Mass.	S.R. Feb. 21, 1918
Cramer, Stuart W.	Pres. Cramerton Mills, Inc., Cramerton, N. C.	Ac. Apr. 26, 1906
Cranska, Lucius B.	Pres. The Floyd Cranska Thread Co., Moosup, Conn.	Ac. Sept. 21, 1905
Crawford, Dana R.	Sales Agt. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.	As. Oct. 14, 1925
Crocker, Paul E.	Controller, Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac. Jan. 17, 1927
Crompton & Knowles Loom Works	Homer Gage, Pres., Worcester, Mass.	Sus. July 20, 1918
Cronkhite, W. W.	General Electric Co., Schenectady, N. Y.	S.R. May 24, 1917

		Elected	
Crowley, Stephen H.	Ac.	Aug. 10, 1927	
Asst. Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.			
Crown Mfg. Co.	Sus.	Oct. 10, 1918	
Benjamin C. Chace, Gen. Mgr., Pawtucket, R. I.			
Cummings, Stanley R.	As.	Mar. 7, 1924	
Research Engr. The Hoover Co., North Canton, Ohio			
Cumnock, John	Ac.	Apr. 30, 1914	
Gen. Mgr. Altavista Cotton Mills, Altavista, Va.			
Cunningham, George C.	Ac.	Apr. 6, 1922	
Treas. Indian Head Mills of Alabama, 48 Franklin St., Boston, Mass.			
Currier, Andrew J.	Ac.	Apr. 25, 1888	
66 Broad St., Valley Falls, R. I.			
Curtis & Marble Machine Co.	Sus.	Apr. 8, 1919	
Edwin H. Marble, Pres., Worcester, Mass.			
Cutter, John	Ac.	June 5, 1925	
Amory, Browne & Co., 48 Franklin St., Boston, Mass.			
Dana, Luther	Ac.	Apr. 30, 1914	
Pres. Dana Warp Mills, Westbrook, Me.			
Dana, Philip	Ac.	Sept. 29, 1898	
Treas. Dana Warp Mills, 347 Brown St., Westbrook, Me.			
Dana Warp Mills	Sus.	May 12, 1917	
Philip Dana, Treas., Westbrook, Me.			
Daniels, F. G.	Ac.	Apr. 17, 1908	
Gen. Mgr. Dominion Textile Co., Ltd., 710 Victoria Sq., Montreal, Quebec, Canada.			
Danker, Daniel J.	{	Apr. 28, 1904	
73 Dean Rd., Brookline, Mass.			
	{ L.	Apr. 25, 1907	
Davis, Edward H.	Ac.	Apr. 6, 1923	
Lawrence & Co., 24 Thomas St., New York City.			
Davis Mills	Sus.	July 20, 1917	
Frank L. Carpenter, Treas., Fall River, Mass.			
Davis, Poncet	As.	June 1, 1923	
Pres. Poncet Davis Co., 226 Ohio Bldg., Akron, Ohio.			
Davis, T. A.	S.R.	June 1, 1923	
Anderson, Clayton & Co., 45 Franklin St., Boston, Mass.			
Davol Mills	Sus.	Aug. 12, 1918	
M. R. Brown, Treas., Fall River, Mass.			
Dawson, Arthur O.	Ac.	Oct. 4, 1907	
Vice Pres. Canadian Cottons, Ltd., 28 Victoria Sq., Montreal, Quebec, Canada.			
Day, Morgan G.	Ac.	May 3, 1921	
Asst. Agt. Indian Orchard Co., Indian Orchard, Mass.			
Dean, Milton O.	Ac.	Dec. 1, 1921	
Agt. Edwards Mfg. Co., Augusta, Me.			
Deering, Henry G.	As.	Apr. 15, 1927	
Crompton & Knowles Loom Works, 241 Harris Ave., Providence, R. I.			
Deering, Milliken & Co., Inc.	Sus.	Nov. 26, 1919	
79 Leonard St., New York City.			

		Elected	
De Forest, George	Ac.	Oct. 28, 1897	
Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.			
Delano, Arthur D.	As.	May 5, 1919	
Treas. Manufacturers' Supply Co., 382 Acushnet Ave., New Bedford, Mass.			
Delano, George	S.R.	May 1, 1920	
Treas. Bourne Mills, Fall River, Mass.			
Denham, J. S.	S.R.	Mar. 4, 1927	
Sales Mgr. Du Pont Rayon Company, 2 Park Ave., New York City.			
DeNormandie, P. Y.	Ac.	Apr. 29, 1896	
Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.			
Dexter, Charles	Ac.	May 13, 1927	
Rumford Textile Co., Phillipsdale, R. I.			
Dexter, Henry C.	Ac.	Apr. 25, 1901	
Sales Agt. Fales & Jenks Machine Co., Pawtucket, R. I.			
Dick, Evans, Jr.	S.R.	June 14, 1926	
Dick, Geary & Lancaster, 37 Pearl St., Boston, Mass.			
Dick, Geary & Lancaster	Sus.	June 14, 1926	
Evans Dick, Jr., 37 Pearl St., Boston, Mass.			
Dillon, Frederick N.	As.	Sept. 22, 1904	
D. M. Dillon Steam Boiler Wks., Fitchburg, Mass.			
Dimick, A. W.	S.R.	Sept. 10, 1918	
Treas. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.			
Dineen, John J.	Ac.	Apr. 30, 1914	
Supt. La Tosca Yarn Mill, Utica, N. Y.			
Dixon, Ezra	As.	Sept. 21, 1905	
Pres. Dixon Lubricating Saddle Co., Bristol, R. I.			
Dodd, H. C.	Ac.	Oct. 5, 1922	
Treas. Thomas Henry & Sons, Inc., P. O. Box 4720, Sta. E., Philadelphia, Pa.			
Dodge, Linsley V.	Ac.	Apr. 16, 1926	
Asst. Treas. W. C. Plunkett & Sons Co., Adams, Mass.			
Dolphin, Joseph	Ac.	May 3, 1918	
Mgr. Canadian Cottons, Ltd., Marysville, New Brunswick, Canada.			
Donelan, Thomas E.	Ac.	Feb. 2, 1922	
Gen. Mgr. Greenwich Bleachery, So. Main St., E. Greenwich, R. I.			
Dooley, John S.	As.	Feb. 14, 1919	
William J. Dooley & Co., 60 Congress St., Boston, Mass.			
Douty, Daniel E.	Ac.	Oct. 2, 1913	
Vice Pres. and Gen. Mgr. U. S. Testing Co., Inc., 1415 Park Ave., Hoboken, N. J.			
Dow, Robert	Ac.	Apr. 25, 1901	
Treas. Solway Dyeing & Textile Co., Pawtucket, R. I.			
Downer, Arthur T.	As.	June 1, 1923	
Pres. New England Laundries, Inc., Converse Pl., Winchester, Mass.			
Draper, Arthur J.	Ac.	Apr. 23, 1903	
Pres. Iccormlee Cotton Mills, Monroe, N. C.			
Draper, B. H. Bristow	{ L.	Apr. 24, 1913 May 7, 1913	
Treas. Draper Corporation, Hopedale, Mass.			
Draper Corp.	Sus.	Aug. 10, 1917	
B. H. Bristow Draper, Treas., Hopedale, Mass.			

			Elected
Dresser, Henry C.	Agt. Beaver Mills, North Adams, Mass.	Ac.	Apr. 27, 1905
Duckworth, Harry S.	Gen. Agt. Cranston Print Works Co., Cranston, R. I.	Ac.	Apr. 17, 1908
Duff, John	David Duff & Son, New Bedford, Mass.	As.	Apr. 28, 1910
Duffy, Walter F.	Pres. & Treas. Acme Ball Bearing Spindle Corp., Franklin, N. H.	As.	Nov. 21, 1927
Dumaine, Frederic C.	Treas. Amoskeag Mfg. Co., P. O. Box 5228, Boston, Mass.	Ac.	Apr. 25, 1901
Duncan, David	Asst. to Agents, Lonsdale Co., 50 South Main St., Providence, R. I.	Ac.	Jan. 11, 1926
Dunlap, F. Lincoln	Supt. Wampanoag Mills, 69 Alden St., Fall River, Mass.	Ac.	Feb. 2, 1923
Du Pont de Nemours, E. I. & Co., Inc.	R. S. Lunt, 274 Franklin St., Boston, Mass.	Sus.	Oct. 27, 1927
Du Pont Rayon Company	J. S. Denham, Sales Mgr., 2 Park Ave., New York City.	Sus.	Mar. 4, 1927
Durfee, Nathan	Asst. Treas. American Printing Co., Fall River, Mass.	Ac.	Apr. 27, 1916
Durfee, Randall N., Jr.	Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac.	Oct. 27, 1927
Dutcher, Frank J.	Pres. Draper Corp., Hopedale, Mass.	Ac.	Apr. 24, 1902
Dwight Mfg. Co.	George Nichols, Treas., 53 State St., Boston, Mass.	Sus.	Dec. 5, 1918
Eames, Charles H.	Pres. Lowell Textile School, Lowell, Mass.	Ac.	Apr. 25, 1907
Earle, Frederic E.	Pres. & Treas. F. E. Earle Co., P. O. Box 804, New Bedford, Mass.	As.	Apr. 6, 1923
Earle, G. Kenneth	Pres. G. Kenneth Earle Co., 4 Market Sq., Providence, R. I.	As.	July 10, 1925
Easton, Frederic W.	Pres. Wapoyset Mfg. Co., 180 Weeden St., Pawtucket, R. I.	Ac.	Apr. 25, 1910
Eastwood, Benjamin, Jr.	Sec. Benjamin Eastwood Co., 300 Straight St., Paterson, N. J.	Ac.	Apr. 13, 1911
Eaton, Clarence W.	C. W. Eaton & Co., P. O. Box 438, New Bedford, Mass.	As.	May 13, 1927
Eddy, Jesse P.	Treas. Tillinghast, Stiles Co., P. O. Box 1522, Providence, R. I.	Ac.	Sept. 21, 1905
Eddy, John D.	190 Winter St., Fall River, Mass.	Ac.	Apr. 27, 1916
Edwards, D. F.	Pres. Saco-Lowell Shops, 147 Milk St., Boston, Mass.	S.R.	May 18, 1917
Ely, Grosvenor	Treas. Ashland Cotton Co., Norwich, Conn.	Ac.	Sept. 30, 1908
Ely, Lloyd C.	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	June 8, 1928
Emery, Arthur L.	Aragon Baldwin Company, Rock Hill, S. C.	Ac.	Apr. 5, 1921

		Elected
Erhard, George P.	Pres. The Stafford Co., Readville, Mass.	S.R. Apr. 1, 1918
Erwin, William A.	Treas. Erwin Cotton Mills, West Durham, N. C.	Ac. Sept. 29, 1911
Esmond Mills, The	Dexter Stevens, Mgr., Esmond, R. I.	Sus. Nov. 14, 1918
Estes, George H.	Asst. Agt. Continental Mills, P. O. Box 427, Lewiston, Me.	Ac. May 5, 1922
Everett, Henry C., Jr.	Treas. Winnsboro Mills, 24 Federal St., Boston, Mass.	Ac. Sept. 15, 1916
Everett, James R.	Vice Pres. & Gen. Mgr. Wonalancet Co., Nashua, N. H.	S.R. Mar. 15, 1918
Fabyan, Francis W.	Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.	Ac. Sept. 29, 1911
Fales, J. Richmond	Vice Pres. Fales & Jenks Machine Co., Pawtucket, R. I.	As. Apr. 24, 1923
Farlow, John S.	Asst. Treas. Whittenton Mfg. Co., 50 State St., Boston, Mass.	S.R. Jan. 30, 1925
Farnum, John, Co.	Philip F. Coleman, Sec., Philadelphia, Pa.	Sus. Oct. 5, 1923
Farrell, J. E.	Supt. West Boylston Mfg. Co., Easthampton, Mass.	Ac. June 6, 1924
Faunce, Vernon C.	Gen. Supt. Bates Mfg. Co., Lewiston, Me.	Ac. Apr. 17, 1908
Ferguson, Alfred L.	Vice Pres. Consolidated Textile Corp., 88 Worth St., New York City.	Ac. Oct. 4, 1907
Ferguson, J. C.	Gen. Mgr. Eclipse Textile Co., Inc., Elmira, N. Y.	As. May 3, 1921
Ferguson, James T.	Agt. Warwick Mills, Centreville, R. I.	Ac. Oct. 5, 1899
Ferguson, John W.	152 Market St., Paterson, N. J.	As. Apr. 24, 1895
Ferrier, William	102 Henry Ave., Lynn, Mass.	Ac. Apr. 6, 1922
Fibre & Fabric	Frederic L. Babcock, Editor, 465 Main St., Cambridge, Mass.	Sus. Apr. 6, 1922
Field, Frank S.	Asst. Treas. Massacomet Yarn Mills, Shattuckville, Mass.	{ L. Oct. 25, 1895 Apr. 27, 1916
Filley, Frank H.	Vice Pres. American Mfg. Co., Noble and West Sts., Brooklyn, N. Y.	Ac. Sept. 30, 1914
Fingerhut, Charles F.	Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. May 13, 1927
First National Bank of Boston	Charles F. Mills, Vice Pres., 67 Milk St., Boston, Mass.	Sus. Oct. 27, 1927
Fish, Charles H.	California Club, Los Angeles, Calif.	{ L. Apr. 27, 1887 Apr. 28, 1904
Fisher, Andrew	Fibre & Fabric, 465 Main St., Cambridge, Mass.	Ac. Apr. 28, 1910
Fisher, James D.	P. T. Jackson Co., 41 Pearl St., Boston, Mass.	As. Apr. 15, 1927

		Elected
Fisher, Robert H.	Ac.	Apr. 15, 1927
Du Pont Rayon Company, 941 Hospital Trust Bldg., Providence, R. I.		
Fisher, Stuart D.	Ac.	July 10, 1925
Supt. Westerly Branch, Lorraine Mfg. Co., Westerly, R. I.		
Fitchburg Yarn Co.	Sus.	Nov. 1, 1918
R. S. Wallace, Treas., Fitchburg, Mass.		
Flather, Frederick A.	{ L.	Apr. 29, 1891
Treas. Boott Mills, 79 Milk St., Boston, Mass.		Apr. 17, 1908
Flather, Frederick	{ L.	May 1, 1924
Boott Mills, Lowell, Mass.		May 1, 1924
Flather, John Rogers	{ L.	May 1, 1924
Boott Mills, Lowell, Mass.		May 1, 1924
Fletcher, Harry	As.	Oct. 27, 1927
Oliver Johnson & Co., Inc., 18 Custom House St., Providence, R. I.		
Flynn, George D.	Ac.	June 14, 1926
Asst. Treas. The Ancona Co., Fall River, Mass.		
Forestdale Mfg. Co.	Sus.	Jan. 23, 1919
Forestdale, R. I.		
Forsaith, Charles Henry	Ac.	Oct. 14, 1925
Supt. Jackson Mill of Nashua Mfg. Co., Nashua, N. H.		
Fort Dummer Mills	Sus.	Nov. 15, 1918
John McMahon, Treas., 24 N. Main St., Providence, R. I.		
Foss, Eugene N.	Ac.	Apr. 25, 1907
11 Revere St., Jamaica Plain, Mass.		
Foss, Noble	Ac.	Apr. 16, 1926
Pres. Maverick Mills, 60 State St., Boston, Mass.		
Fowler, C. S.	Ac.	June 29, 1920
Westerly, R. I.		
Fowler, E. T.	As.	Apr. 26, 1906
Treas. & Mgr. Foster Machine Co., Westfield, Mass.		
Fraker, George W.	As.	Mar. 1, 1919
Vice Pres. National City Bank, New York City.		
France, Edward W.	Ac.	Sept. 22, 1896
Director, Philadelphia Textile School, Broad and Pine Sts., Philadelphia, Pa.		
France, Thomas W.	As.	Dec. 7, 1923
150 Beaufort St., Providence, R. I.		
Francis T. A., & Co.	Sus.	Aug. 1, 1919
T. A. Francis, Providence, R. I.		
Franklin Rayon Corporation	Sus.	Oct. 27, 1927
Royal Little, Treas., 86 Crary St., Providence, R. I.		
Freeman, Arthur C.	Ac.	Apr. 27, 1899
Vice Pres. H. W. Butterworth & Sons Co., 1212 Turks Head Bldg., Providence, R. I.		
Frisbie, Calvin H.	S.R.	July 20, 1918
Pres. Totokett Mfg. Co., Norwich, Conn.		
Fritz, Frank R.	Ac.	Oct. 16, 1919
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.		
Frost, Rufus S.	As.	Apr. 15, 1927
Crompton & Knowles Loom Works, Worcester, Mass.		

		Elected
Gage, Homer	S.R.	July 20, 1918
Pres. Crompton & Knowles Loom Works, Worcester, Mass.		
Gagnebin, Charles L.	As.	Apr. 30, 1914
41 Carlton St., Brookline, Mass.		
Gallant, Walter B.	Ac.	Feb. 2, 1922
Agt. Newmarket Mfg. Co., Newmarket, N. H.		
Gama, Salvado R.	{ L.	Apr. 27, 1916
Mgr. Machado, Gama & Co., Caixa Postal No. 2093, Rio de Janeiro, Brazil.		Apr. 26, 1917
Gardner, Arnold C.	Ac.	Apr. 26, 1906
Treas. Manomet Mills, 1 Clinton Pl., New Bedford, Mass.		
Gardner, William B.	Ac.	Sept. 23, 1909
Treas. Nashawena Mills, New Bedford, Mass.		
Garland, James P.	As.	Apr. 16, 1926
Vice Pres. Garland Mfg. Co., Saco, Me.		
Garside, Alston H.	As.	Apr. 16, 1926
Director, Garside Cotton Service, 28 State St., Boston, Mass.		
Garvin, James	Ac.	Oct. 20, 1917
Supt. Harmony Mills, Cohoes, N. Y.		
Gary, E. Stanley	Ac.	Oct. 1, 1903
Pres. James S. Gary & Sons, Inc., 204-206 American Bldg., Baltimore, Md.		
General Electric Company	Sus.	May 24, 1917
West Lynn, Mass.		
Gerard Swope, Pres., New York City.		
W. W. Cronkhite, Schenectady, N. Y.		
Gibbs, E. Payson	Ac.	Sept. 23, 1909
Biddeford, Me.		
Gilliland, Charles L.	Ac.	Oct. 2, 1913
1530 Bankers Trust Bldg., Philadelphia, Pa.		
Gilman, Edward T.	Ac.	May 5, 1922
363 Bridge St., Lowell, Mass.		
Gilmore, George L.	Ac.	Apr. 29, 1916
K. M. Gilmore & Co., Somerville, Mass.		
Gilmore, K. M., & Co.	Sus.	June 4, 1917
George L. Gilmore, Somerville, Mass.		
Glennon, John F.	Ac.	Apr. 16, 1926
Supt. Quissett Mill, New Bedford, Mass.		
Glennon, Thomas F.	Ac.	Apr. 28, 1910
Agt. Quissett Mill, New Bedford, Mass.		
Gniessin, Vladimir F.	Ac.	Oct. 1, 1903
Blythewood, S. C.		
Goddard Brothers	Sus.	Nov. 8, 1918
R. H. I. Goddard, Treas., Providence, R. I.		
Goddard, R. H. I.	S.R.	Nov. 8, 1918
Treas. Goddard Brothers, Providence, R. I.		
Godfrey, William C.	Ac.	Oct. 29, 1890
Treas. and Agt. Indian Orchard Co., Indian Orchard, Mass.		
Goerner, Gustav William	As.	Apr. 27, 1916
Roessler & Hasslacher Chemical Co., 40 Central St., Boston, Mass.		
Goff, Albert H.	Ac.	Apr. 25, 1907
The Textile-Finishing Machinery Co., Providence, R. I.		

		Elected	
Goldman, Maurice A.	Ac.	Sept. 30, 1927	
Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.			
Goldsmith, Wm. H., Jr.	As.	Oct. 20, 1917	
Consulting Engr., 43 Garrison Rd., Brookline, Mass.			
Goodyear Cotton Mills, Inc.	Sus.	Feb. 8, 1918	
H. B. Puckett, Asst. Treas., Goodyear, Conn.			
Gordon, Beirne, Jr.	Ac.	Apr. 28, 1910	
V. P. & Gen. Mgr. The Skenandoa Cotton Co., 1201 Broad St., Utica, N. Y.			
Gordon, C. B.	Ac.	Sept. 13, 1906	
Pres. Dominion Textile Co., Ltd., 10 Victoria Sq., Montreal, Quebec, Canada.			
Gordon, Frank S.	Ac.	Sept. 8, 1922	
Agt. Boston Duck Co., Bondsville, Mass.			
Gordon, Frederick B.	Ac.	Apr. 26, 1900	
Pres. Columbus Mfg. Co., Columbus, Ga.			
Gore, Lyman W.	S.R.	Oct. 27, 1927	
Gore-Temple Company, 178 Federal St., Boston, Mass.			
Gore-Temple Company	Sus.	Oct. 27, 1927	
Lyman W. Gore, 178 Federal St., Boston, Mass.			
Chas. S. Temple, 178 Federal St., Boston, Mass.			
Gosnold Mills Co.	Sus.	Sept. 25, 1917	
Allan Barrows, Treas., New Bedford, Mass.			
Gould, William A.	As.	Dec. 6, 1926	
30 Alvarade Ave., Worcester, Mass.			
Gourley, Hugh J.	Ac.	Sept. 8, 1922	
Agt. Warren Mfg. Co., Water St., Warren, R. I.			
Goyette, A. Erland	{	May 5, 1922	
Mgr. Joseph Noone's Sons Co., Peterboro, N. H.		Oct. 27, 1927	
Grab, Max	Ac.	Apr. 6, 1922	
M. Grab Sons, Prague VIII, Czechoslovakia.			
Grandison, Ralph V.	As.	June 29, 1920	
Agt. Hazard Cotton Co., P. O. Box 1835, Boston, Mass.			
Granite Mills	Sus.	June 20, 1918	
James A. Sinclair, Treas., Fall River, Mass.			
Grant, George P., Jr.	Ac.	Sept. 27, 1894	
Treas. Grant Yarn Co., Fitchburg, Mass.			
Gray, William H.	Ac.	May 3, 1918	
Pres. and Treas. Dedham Finishing Co., Dedham, Mass.			
Greene, Edwin Farnham	Ac.	Apr. 24, 1902	
Treas. Pacific Mills, 24 Thomas St., New York City.			
Greene, Everett A.	Ac.	May 4, 1920	
Lockwood, Greene & Co., 24 Federal St., Boston, Mass.			
Greene, F. Hartwell	Ac.	June 1, 1923	
Treas. New England Southern Mills, 24 Federal St., Boston, Mass.			
Greene, Ray W., Jr.	Ac.	Nov. 21, 1927	
Lawton Mills Corp., Plainfield, Conn.			
Greene, S. Harold	Ac.	Apr. 27, 1905	
Treas. Lawton Mills Corp., 24 Federal St., Boston, Mass.			
Greenhalgh, George T.	Ac.	Apr. 30, 1909	
Treas. Greenhalgh Mills, Pawtucket, R. I.			

			Elected
Greenlaw, Henry C.	Agt., Nashua Mfg. Co., Suffolk Mills, Lowell, Mass.	Ac.	Apr. 26, 1928
Greenough, Allan B.	45 Milk St., Boston, Mass.	Ac.	Oct. 20, 1918
Greenville Finishing Company	A. F. Shaw, Pres., Greenville, R. I.	Sus.	June 14, 1926
Greer, Samuel	Supt. Lancaster Mills, 40 Chestnut St., Clinton, Mass.	Ac.	Apr. 24, 1923
Greer, William K.	Agt. Hoosac Cotton Mills, P. O. Box 258, North Adams, Mass.	Ac.	Apr. 26, 1906
Greylock Mills	Gilbert T. Thompson, Treas., North Adams, Mass.	Sus.	May 15, 1917
Gridley, Oscar W.	Treas. Utica Knitting Co., Erie St., Utica, N. Y.	Ac.	Apr. 28, 1910
Grinnell Mfg. Corp.	Joseph W. Webster, Treas., New Bedford, Mass.	Sus.	Mar. 18, 1918
Griswoldville Mfg. Co.	Joseph W. Ballard, Treas., Griswoldville, Mass.	Sus.	Jan. 21, 1918
Grosvenor-Dale Co.	A. W. Dimick, Treas., No. Grosvenor-Dale, Conn.	Sus.	Sept. 10, 1918
Grosvenor, William	Pres. Grosvenor-Dale Co., P. O. Box 1384, Providence, R. I.	Ac.	Apr. 28, 1910
Gunby, Frank M.	c/o Charles T. Main, 201 Devonshire St., Boston, Mass.	As.	Apr. 26, 1917
Haff, Raymond E. T.	Du Pont Rayon Co., 2 Park Ave., New York City.	As.	Sept. 30, 1927
Hagan, Thomas H.	Mgr. The Textile Development Co., 80 Federal St., Boston, Mass.	Ac.	June 5, 1925
Hague, Edwin D.	Whitin Machine Wks., Whitinsville, Mass.	As.	Oct. 5, 1922
Hale, Frank J.	147 Milk St., Boston, Mass.	Ac.	Apr. 27, 1892
Hale, Roger D.	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Oct. 14, 1925
Haley, Henry T.	Pres. Dundee Mills, Hooksett, N. H.	Ac.	Sept. 30, 1914
Hall, F. C.	Treas. Granite Mills, Fall River, Mass.	Ac.	Oct. 29, 1918
Hall, F. Kilby	Cotton Technologist, U. S. Dept. of Agriculture, Clemson Agricultural College, Clemson College, S. C.	L.	Sept. 30, 1927
			Feb. 10, 1928
Hall, H. Dwight	Sec. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.	As.	June 1, 1923
Hall, Lindsay S.	Supt. Devon Mills, Inc., New Bedford, Mass.	Ac.	Oct. 16, 1919
Hall, Walter B.	Agt. York Mfg. Co., Saco, Me.	Ac.	Apr. 25, 1901
Halliwell, William	Agt. Lawton Spinning Co., Woonsocket, R. I.	Ac.	Sept. 26, 1901

		Elected
Hanaford, John H. 89 State St., Boston, Mass.	As.	May 3, 1918
Hannah, George K. Supt. Parkhill Mfg. Co., 70 Congress St., Fitchburg, Mass.	Ac.	Apr. 24, 1923
Hansen, Harold C. Boston Transcript, 324 Washington St., Boston, Mass.	{ L.	Sept. 23, 1909 Sept. 23, 1910
Harden, Henry C. Agt. Great Falls Mfg. Co., Somersworth, N. H.	Ac.	May 3, 1918
Harding, Charles L. Pres. Whitman Mills, 77 Franklin St., Boston, Mass.	Ac.	Sept. 11, 1912
Harding, Tilton & Co. Newell W. Tilton, 50 Union Sq., New York City.	Sus.	Dec. 17, 1917
Harmon, William C. Pres. The Pond Lily Co., New Haven, Conn.	S.R.	Aug. 21, 1917
Harmony Mills John Skinner, Treas., Cohoes, N. Y.	Sus.	May 10, 1917
Harris, Thomas Gen. Supt. Social, Nourse & Globe Mills, Manville Jenckes Co., Woonsocket, R. I.	Ac.	Jan. 11, 1926
Harrison, Gilbert D. V. P. & Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.	Ac.	Jan. 12, 1922
Harrison, Herbert Agt. John Hetherington & Sons, Ltd., 49 Federal St., Boston, Mass.	As.	Jan. 14, 1919
Harrower, Francis D. Asst. Agt. The Wauregan Co., Wauregan, Conn.	Ac.	Apr. 4, 1924
Harrower, Gordon Vice Pres. & Asst. Treas. The Wauregan Co., P. O. Box 1425, Providence, R. I.	Ac.	Feb. 2, 1923
Hartley, Frank Frank Hartley & Son, 146 Summer St., Boston, Mass.	Ac.	Apr. 27, 1905
Hartshorne, William D. 64 Middlesex Ave., Swampscott, Mass.	{ L.	Apr. 27, 1899 Apr. 26, 1906
Hastings, Walter M. Agt. Monomac Spinning Co., Lawrence, Mass.	Ac.	Apr. 23, 1903
Hatch, Roy O. Supt. Samson Cordage Works, Shirley, Mass.	Ac.	Apr. 16, 1926
Hatch, T. Edward Asst. Treas. Greenwich Bleachery Company, 80 Federal St., Boston, Mass.	Ac.	Oct. 27, 1927
Hathaway, Edgar F. Vice Pres. & Gen. Mgr. Shawmut Engineering Co., 195 Freeport St., Dorchester, Mass.	As.	Apr. 27, 1905
Hathaway, Horatio Pres. Acushnet Mill Corp., 8 Beacon St., Boston, Mass.	As.	Apr. 16, 1926
Hathaway Mfg. Co. J. E. Stanton, Jr., Treas., New Bedford, Mass.	Sus.	Nov. 21, 1918
Hathaway, Russell Lockwood, Greene & Co., Inc., Laboratory, 27 Albany St., Boston, Mass.	Ac.	Jan. 6, 1928
Haughton, M. Graeme Haughton & Co., 40 Central St., Boston, Mass.	{ L.	Apr. 29, 1915 May 15, 1916
Haurowitz, Stephen Carl L. Haurowitz-Grattau, Prague II, Václavské 14, Czechoslovakia.	Ac.	Apr. 6, 1922

			Elected
Havey, J. Fred	Mgr. Foreign Sales Dept., Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Sept. 17, 1910
Hawes, William B.	O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.	Ac.	Apr. 24, 1895
Hayes, Clifford B.	Pacific Mills, Lyman Division, Lyman, S. C.	Ac.	Jan. 17, 1927
Hayward, Harry J.	New England Southern Mills, 60 Federal St., Boston, Mass.	Ac.	Aug. 10, 1927
Hayward, Harry T.	Pres. Forestdale Mfg. Co., Franklin, Mass.	Ac.	Apr. 25, 1907
Hazard, William H., Jr.	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	Apr. 16, 1926
Heap, Charles F.	Supt. Lincoln Mfg. Co., Fall River, Mass.	Ac.	Apr. 30, 1909
Heatley, Thomas E.	320 Broadway, New York City.	Ac.	Sept. 11, 1915
Hedrick, Charles C.	c/o Mitsubishi Shoji Kaisha, Ltd., 15 Andojibashidori, 3 Chome, Minami-Ku, Osaka, Japan.	As.	Apr. 23, 1903
Helfenbein, Robert	105 George St., Fall River, Mass.	Jr. Tech.	Jan. 17, 1927
Hendry, Robert A.	Asst. Supt. Nashawena Mills, New Bedford, Mass.	Ac.	June 14, 1926
Hentz, H., & Company	George L. Snowden, Mgr. Cotton Dept., 60 Beaver St., New York City.	Sus.	Apr. 26, 1928
Herrick, Clifford E.	Northern Agent, Boyce Weavers Knotter, 44 Franklin St., Providence, R. I.	As.	June 14, 1926
Herrick, Robert F., Jr.	V. P. Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Apr. 6, 1920
Herrick, Robert F.	Pres. Pacific Mills, 1 Federal St., Boston, Mass.	Ac.	Apr. 27, 1916
Herron, Alexander T.	P. O. Box 57, Utica, N. Y.	Ac.	Apr. 4, 1924
Hersey, Henry H.	Mgr. Roller Leather Dept. A. C. Lawrence Leather Co., 210 South St., Boston, Mass.	As.	Apr. 16, 1926
Hewins, Edmund D.	Pres. & Treas. E. D. Hewins, Inc., 72 Lincoln St., Boston, Mass.	As.	Oct. 5, 1922
Heyes, Fred L.	Agt. Nonquitt Spinning Co., 449 Clinton St., New Bedford, Mass.	Ac.	Sept. 11, 1915
Hill, John H.	Steel Heddle Mfg. Co., Providence, R. I.	As.	Apr. 16, 1926
Hill & Cutler Co.	Laurance D. Chapman, Asst. Treas., 1 Pearl St., New Bedford, Mass.	Sus.	Mar. 7, 1924
Hill Mfg. Co.	Walter H. Bradley, Treas., 89 State St., Boston, Mass.	Sus.	June 15, 1923
Hillman, Ralph G.	Asst. Supt. Samson Cordage Works, Shirley, Mass.	Ac.	Apr. 16, 1926
Hinckley, Everett H.	Borne-Scrymser Co., 17 Battery Pl., New York City.	As.	Aug. 3, 1921

		Elected
Hinckley, George C.	Textile Broker, 707 Grosvenor Bldg., Providence, R. I.	Ac. Sept. 23, 1909
Hindle, Joseph H.	Supt. Print Wks. Div. American Printing Co., Water St., Fall River, Mass.	Ac. June 1, 1923
Hitchcock, Thomas B.	32 Fuller St., Brookline, Mass.	Ac. Apr. 13, 1911
Hobbs, A. F.	Vice Pres. New York Mills Corp., New York Mills, N. Y.	S.R. Feb. 10, 1920
Hobbs, Ernest S.	Treas. Aurora Cotton Mills, Aurora, Ill.	Ac. Oct. 29, 1918
Hobbs, Franklin W.	Pres. Arlington Mills, 78 Chauncy St., Boston, Mass.	{ L. Apr. 27, 1899 Apr. 18, 1917
Hoch, William H.	Whitin Machine Works, Whitinsville, Mass.	As. Apr. 15, 1927
Hodges, Charles E.	Pres. American Mutual Liability Ins. Co., 142 Berkeley St., Boston, Mass.	As. Apr. 17, 1908
Holbrook, H. G.	Kendall Mills, Walpole, Mass.	S.R. Aug. 3, 1921
Holcomb, Clark W.	New Bedford Boiler & Machine Co., P. O. Box 650, New Bedford, Mass.	Ac. Sept. 21, 1905
Holgate, Benjamin	Agt. Boott Mills, Lowell, Mass.	Ac. Jan. 12, 1922
Holmes, Charles M.	Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac. Apr. 27, 1899
Holmes Mfg. Co.	Charles M. Holmes, Treas., New Bedford, Mass.	Sus. Sept. 18, 1917
Holt, John H.	Treas. Luther Mfg. Co., P. O. Box 57, Fall River, Mass.	{ L. Apr. 23, 1903 Feb. 25, 1920
Homer, Arthur C.	Treas. Pilgrim Mills, Fall River, Mass.	S.R. July 17, 1917
Hood, Ernest N.	Treas. Naumkeag Steam Cotton Co., Salem, Mass.	Ac. Oct. 20, 1917
Hook, Russell W.	Textile Chemist, Arthur D. Little, Inc., 30 Charles River Road, Cambridge, Mass.	Ac. Apr. 26, 1928
Hooper, James P.	Vice Pres. William E. Hooper & Sons Co., Baltimore, Md.	Ac. May 3, 1918
Hooper, Robert P.	Treas. Hooper Sons Mfg. Co., Juniper and Cherry Sts., Philadelphia, Pa.	Ac. Sept. 21, 1905
Hocsac Cotton Mills	Harold M. Coxen, North Adams, Mass.	Sus. Feb. 21, 1918
Hopkinson, Thomas	Hopkinson Dyeing & Textile Works, Fall River, Mass.	Ac. Apr. 25, 1912
Hopson, Harry B.	Green & Hopson, Green Bldg., Springfield, Mass.	Ac. Apr. 28, 1904
Horton, Herbert Roy	J. & P. Coats (R. I.), Inc., 614 East Ave., Pawtucket, R. I.	Ac. Mar. 4, 1927
Houghton, Harry E.	Supt. Spinning, Dartmouth Mfg. Co., Cove St., New Bedford, Mass.	Ac. Apr. 30, 1914

		Elected
Howard Bros. Mfg. Co.	Sus.	Jan. 22, 1918
Herbert Midgley, Pres. & Gen. Mgr., Worcester, Mass.		
Howe, Dudley R.	Ac.	Oct. 5, 1923
Director, Lockwood, Greene & Co., Mgrs., 24 Federal St., Boston, Mass.		
Howe, Frederick W.	As.	Apr. 24, 1902
Vice Pres. Crompton & Knowles Loom Wks., P. O. Box 1361, Providence, R. I.		
Howe, Henry S.	Ac.	Oct. 31, 1877
53 State St., Room 843, Boston, Mass.		
Howe, Parkman D.	Ac.	Sept. 11, 1915
Lawrence & Co., 89 Franklin St., Boston, Mass.		
Howe, Percival S., Jr.	Ac.	Mar. 2, 1923
Wellington, Sears & Co., 65 Worth St., New York City.		
Howe, Woodbury K.	Ac.	June 7, 1919
Asst. Supt. Merrimack Mfg. Co., Lowell, Mass.		
Howland, Weston	Ac.	May 1, 1924
Treas. Warwick Mills, 201 Devonshire St., Boston, Mass.		
Hoxie, Frederick J.	Ac.	Apr. 26, 1928
Consulting Textile Engineer, West Warwick, R. I.		
Hubbard, Samuel T.	As.	Sept. 13, 1906
Hubbard Bros. & Co., 66 Beaver St., New York City.		
Huggins, Gurry E.	As.	Apr. 30, 1914
79 Broadway, New York City.		
Hunnewell, Arnold W.	As.	May 3, 1921
Treas. Nashua Homes Corp., P. O. Box 1302, Boston, Mass.		
Hunter, Henry P.	Ac.	Apr. 24, 1913
Supt. Equinox Mill, Anderson, S. C.		
Huntoon, Harrison B., Jr.	Ac.	June 1, 1923
Treas. Providence Braid Co., P. O. Box 1271, Providence, R. I.		
Huntoon, Maxwell C.	Ac.	June 1, 1923
Pres. Woodlawn Finishing Co., P. O. Box 1211, Providence, R. I.		
Hyslop, Samuel	Ac.	Sept. 30, 1908
Mgr. Saxony Worsted Mills, Newton, Mass.		
Ilsley, John P.	As.	Oct. 6, 1921
N. E. Mgr. Wing & Evans, Inc., 77 Summer St., Boston, Mass.		
Inches, Charles E.	Ac.	May 4, 1920
Treas. Androscoggin Mills, 77 Franklin St., Boston, Mass.		
Industrial Rayon Corporation	Sus.	Feb. 10, 1928
D. S. Mallory, Treas., W. 98th St. and Walford Ave., Cleveland, Ohio		
Hiram S. Rivitz, Pres., W. 98th St. and Walford Ave., Cleveland, Ohio		
Interlaken Mills	Sus.	Oct. 29, 1918
Harris H. Bucklin, Asst. Treas., Phenix, R. I.		
Irvine, Robert A.	Ac.	Dec. 6, 1926
Lancaster Mills, Clinton, Mass.		
Iselin, Oliver	Ac.	May 13, 1927
William Iselin & Co., 18 Thomas St., New York City.		
Jackson, N. Baxter	As.	Feb. 5, 1926
Vice Pres. Chemical National Bank, 270 Broadway, New York City.		
Jackson, P. T.	Ac.	Sept. 21, 1905
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass.		

		Elected
Jackson, S. Eugene	Ac.	May 1, 1924
Asst. Treas. Crown Mfg. Co., Pawtucket, R. I.		
Jamieson, Joseph B.	Ac.	Oct. 2, 1902
Treas. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.		
Jamieson, Philip S.	Ac.	June 14, 1926
Vice Pres. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.		
Jelleme, W. O.	Ac.	Aug. 5, 1919
Farley Road, Short Hills, N. J.		
Jenckes, Earl S.	Ac.	Apr. 27, 1905
Vice Pres. & Gen. Mgr. Reading Cotton Mill, Jos. Baneroff & Sons Co. of Pennsylvania, Reading, Pa.		
Jenckes, Frederick L.	Ac.	Apr. 25, 1907
Treas. Manville Jenckes Co., Pawtucket, R. I.		
Jenkins, Arthur L.	As.	Apr. 26, 1928
Asst. Treas. Emmons Loom Harness Co., Lawrence, Mass.		
Jenks, Robert R.	As.	Oct. 5, 1922
Pres. Fales & Jenks Machine Co., 320 Dexter St., Pawtucket, R. I.		
Jenks, Samuel A.	As.	Apr. 16, 1926
Sec. & Gen. Mgr. Union Electric Supply Co., 20 Commercial St., New Bedford, Mass.		
Jennings, Edward B.	Ac.	Sept. 29, 1898
547 High St., Fall River, Mass.		
Jennings, William H.	S.R.	Nov. 1, 1918
Treas. Algonquin Printing Co., Fall River, Mass.		
Johnson, Arthur R.	As.	May 1, 1924
Ridley Watts Co., 44 Leonard St., New York City.		
Johnson, Edward M.	As.	Apr. 29, 1915
Vice Pres. & Treas. Arnold, Hoffman & Co., Inc., P. O. Box 1376, Providence, R. I.		
Jones, Allen	Ac.	Oct. 5, 1922
Asst. Mgr. Beaver Mills, 102 Worth St., New York City.		
Jones, Ernest G.	As.	May 5, 1919
Cooper & Brush, 826 Industrial Trust Bldg., Providence, R. I.		
Jones, William A.	As.	July 30, 1926
Pres. Jones & Brown Co., 40 Central St., Boston, Mass.		
Judson, Wm. D.	S.R.	Nov. 23, 1918
Parker, Wilder & Co., 78 Leonard St., New York City.		
Jury, Alfred E.	As.	Sept. 16, 1916
United States Rubber Co., 1790 Broadway, New York City.		
Kay, George R.	Tech.	Oct. 27, 1927
The Textile Development Company, 80 Federal St., Boston Mass.		
Kay, K.	Ac.	June 6, 1924
Binny & Co. (Madras) Ltd., 7 Armenian St., Madras, India.		
Kean, George P.	Ac.	Apr. 6, 1928
Nyanza Mills, Woonsocket, R. I.		
Keech, F. B., & Co.	Sus.	Apr. 26, 1928
W. Brewster Southworth, 30 State St., Boston, Mass.		
Keeler, Lawrence M.	As.	Sept. 26, 1901
Agt. Whitin Machine Wks., Whitinsville, Mass.		
Kelley, Ahira Baker	Ac.	Apr. 13, 1911
Bemis Bro. Bag. Co., 40 Central St., Boston, Mass.		

		Elected	
Kelley, Timothy J.	Vice Pres. Brighton Mills, Passaic, N. J.	Ac.	Apr. 30, 1909
Kendall, Henry P.	Pres. Kendall Mills, 80 Federal St., Boston, Mass.	Ac.	Apr. 29, 1915
Kendall Mills	H. G. Holbrook, Walpole, Mass.	Sus.	Aug. 3, 1921
Kenney, Frank B.	Pres. T. C. Entwistle Co., 297 Market St., Lowell, Mass.	As.	Oct. 5, 1899
Kenney, Joseph T.	Pres. Sharp Mfg. Co., New Bedford, Mass.	Ac.	May 3, 1918
Kenyon, Walter S.	American Thread Co., 260 West Broadway, New York City.	Ac.	Dec. 6, 1926
Kern, William E., Jr.	Treas. Taber Mill, New Bedford, Mass.	Ac.	Sept. 23, 1909
Kerr, James B.	Agt. American Thread Co., Fall River, Mass.	Ac.	Apr. 25, 1907
Kershaw, Elias H.	Supt. Greylock Mill A, North Adams, Mass.	Ac.	Oct. 14, 1926
Killheffer, Elvin H.	Vice Pres. Newport Chemical Wks., Inc., Passaic, N. J.	S.R.	Nov. 10, 1919
Killian, J. R.	Box 115, Columbus, Ga.	Ac.	Nov. 1, 1923
Kimball, William N.	Agt. Manville Co., Woonsocket, R. I.	Ac.	Apr. 24, 1902
King, Gelston T.	E. and F. King Co., Inc., 405 Atlantic Ave., Boston, Mass.	As.	Nov. 13, 1924
King Philip Mills	Simcon B. Chase, Treas., Fall River, Mass.	Sus.	June 14, 1918
Kirk, John T.	Gen. Supt. Nashawena Mill, 109 Bedford St., New Bedford, Mass.	Ac.	Apr. 27, 1905
Klebart, Fred S.	The J. B. Ford Co., Wyandotte, Mich.	As.	Apr. 25, 1912
Kleeb, Leonard, Jr.	County Road, Ipswich, Mass.	Ac.	May 3, 1918
Knight, Jesse A.	Agt. Manomet Mills, New Bedford, Mass.	Ac.	Oct. 26, 1892
Knight, Walter B.	Agt. Quidnick-Windham Mfg. Co., Willimantic, Conn.	Ac.	Apr. 24, 1889
Knowland, Richard G.	Con. Chemical Eng., 88 Broad St., Boston, Mass.	As.	Mar. 7, 1924
Knowlton, Harold W.	Treas. The Textile Development Co., 77 Summer St., Boston, Mass.	Ac.	June 5, 1925
Knowlton, Harry W.	Pres. Knowlton & Newton Co., Inc., 545 Broadway, Lowell, Mass.	As.	Nov. 1, 1923
Kunhardt, L. H.	Vice Pres. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.	As.	Oct. 2, 1913

	Elected
Lampport Mfg. Supply Co. Samuel C. Lampport, Pres., 509 Broadway, New York City.	Sus. Nov. 13, 1924
Lampport, Samuel C. Pres. Lampport Mfg. Supply Co., 509 Broadway, New York City.	S.R. Nov. 13, 1924
Lancaster Mills S. Harold Greene, Pres., 24 Federal St., Boston, Mass.	Sus. Nov. 5, 1917
Lane, David F. W. T. Lane & Bros., Poughkeepsie, New York.	Ac. Dec. 5, 1924
Langdon, Duncan Vice Pres. & Gen. Mgr. S. Slater & Sons, Inc., Webster, Mass.	Ac. Jan. 11, 1926
Lapham, Leonard C. Treas. Nonquitt Spinning Co., New Bedford, Mass.	Ac. Apr. 25, 1907
Lasell, John W. Advertising Mgr. Whitin Machine Works, Whitinsville, Mass.	As. Feb. 5, 1926
Lasell, Josiah M. Whitin Machine Wks., Whitinsville, Mass.	As. Apr. 24, 1895
Latham, Wendell G. Supt. Blodgett & Orswell Co., Pawtucket, R. I.	Ac. June 5, 1925
Lawrence, James McFadden, Sands & Co., 114 Federal St., Boston, Mass.	As. Sept. 30, 1914
Lawrence, John S. Lawrence & Co., 89 Franklin St., Boston, Mass.	As. Apr. 30, 1909
Lawrence & Co. John S. Lawrence, 89 Franklin St., Boston, Mass.	Sus. May 31, 1917
Lawrence Duck Co. William L. Barrell, Treas., Lawrence, Mass.	Sus. Mar. 15, 1918
Lawson, John Pres. Hemphill Co., Pawtucket, R. I.	As. Oct. 26, 1918
Lawson, Ralph John Malloch & Co., 128 Washington St., Boston, Mass.	As. Oct. 20, 1917
Lawton Mills Corp., The S. Harold Greene, Treas., 24 Federal St., Boston, Mass.	Sus. Nov. 5, 1917
Leach, Joseph T. Supt. Durfee Mills, Fall River, Mass.	Ac. Apr. 13, 1911
Leary, Frank J. Leary & Walker, New Bedford, Mass.	As. Apr. 16, 1926
Lee, William S. Vice Pres. Southern Power Co., P. O. Box 600, Charlotte, N. C.	Ac. Apr. 13, 1911
Leland, Richard C. Warwick Mills, West Warwick, R. I.	Ac. Mar. 4, 1927
Leonard, Philip H. Supt. Ipswich Mills, Ipswich, Mass.	Ac. June 14, 1926
Leonard, Russell H. Treas. Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac. Apr. 29, 1915
Leonard, Wardwell C. Nashawena Mills, New Bedford, Mass.	Tech. Mar. 2, 1923
Leve, Adolph New England Waste Co., 549 Atlantic Ave., Boston, Mass.	As. June 8, 1928
Lewis, J. Colby Supt. Pemaquid Mills, P. O. Box 940, New Bedford, Mass.	Ac. Nov. 13, 1924

		Elected
Libbey, W. Scott	Treas. W. S. Libbey Co., Lewiston, Me.	Ac. May 5, 1922
Liberty, Earl J.	Whitin Bros., Inc., Whitinsville, Mass.	Ac. Mar. 4, 1927
Lincoln Mfg. Co.	Israel Brayton, Treas., Fall River, Mass.	Sus. July 30, 1917
Lindell, George A.	114 N. Main St., Uxbridge, Mass.	Tech. Apr. 16, 1926
Lippitt, Henry F.	Chairman, Manville Jenckes Co., P. O. Box 1465, Providence, R. I.	Ac. Apr. 27, 1881
Little Androscoggin Water Power Co.	W. E. Winchester, Treas., 79 Leonard St., New York City.	Sus. Sept. 18, 1917
Little, Royal	Franklin Rayon Corporation, 86 Crary St., Providence, R. I.	S.R. Oct. 27, 1927
Littlefield, W. Joseph	Treas. Thorndike Company, 24 Milk St., Boston, Mass.	Ac. Apr. 6, 1928
Locke, C. Hubert	Chem. Eng., York Mfg. Co., 1 Prospect St., Wakefield, Mass.	Ac. Oct. 27, 1927
Lockwood Co.	William E. Winchester, 79 Leonard St., New York City.	Sus. Aug. 10, 1917
Lockwood, Greene & Co., Inc.	Frank W. Reynolds, Vice Pres., 24 Federal St., Boston, Mass.	Sus. Sept. 27, 1917
Lockwood, H. deForest	Treas. Bates Mfg. Co., 60 Congress St., Boston, Mass.	Ac. Apr. 13, 1911
Loftus, William H.	Supt. The Clark Thread Co., Newark, N. J.	Ac. Oct. 28, 1897
Loper, Ralph E., & Co.	Ralph E. Loper, Pres., 10 Purchase St., Fall River, Mass.	Sus. Nov. 1, 1923
Loper, Ralph E.	Pres. Ralph E. Loper & Co., 10 Purchase St., Fall River, Mass.	S.R. Nov. 1, 1923
Lord, Charles E.	Pres. Aberfoyle Mfg. Co., Chester, Pa.	Ac. May 3, 1921
Lord, Harry D.	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	Ac. Apr. 27, 1905
Lord, Henry G.	Pres. Bragdon, Lord & Nagle Co., Inc., 65 Franklin St., Boston, Mass.	S.R. Mar. 1, 1918
Lord, John T.	Supt. Pacific Mills, 50 Phillips St., Andover, Mass.	Ac. Apr. 28, 1904
Lorraine Mfg. Co.	James R. MacColl, Pres., Pawtucket, R. I.	Sus. May 24, 1917
Lovering, William M.	Treas. Taunton Bleachery & Dye Works, Taunton, Mass.	Ac. Sept. 27, 1894
Low, J. J.	E. P. Walker & Co., 100 Milk St., Boston, Mass.	As. May 1, 1924
Lowe, Arthur H.	Pres. Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 30, 1889
Lowe, David	Supt. Parkhill Mfg. Co., Fitchburg, Mass.	Ac. Apr. 24, 1895
Lowe, John	Gen. Mgr. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac. Apr. 28, 1910

		Elected	
Lowe, John	61 Prospect St., South Dartmouth, Mass.	Ac.	Nov. 23, 1925
Lowe, Russell B.	Parkhill Division of the Amoskeag Mfg. Co., Fitchburg, Mass.	Ac.	Apr. 25, 1907
Lowell, A. Lawrence, LL.D.	Pres. Harvard University, 19 Quincy St., Cambridge, Mass.	Hon.	Apr. 30, 1909
Lowell, W. Frank	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Oct. 14, 1926
Luce, George E.	Supt. Beaver Mills, Waterford Plant, P. O. Box 25, Waterford, N. Y.	Ac.	Apr. 28, 1910
Lunt, R. S.	E. I. du Pont de Nemours & Co., Inc., 274 Franklin St., Boston, Mass.	S.R.	Oct. 27, 1927
Luther Mfg. Co.	John H. Holt, Treas., P. O. Box 57, Fall River, Mass.	Sus.	Feb. 1, 1918
Lyall, William L.	Chairman of Board, Brighton Mills, Passaic, N. J.	Ac.	Oct. 26, 1892
Lyle, E. T.	Vice Pres. Carrier Engineering Corp., 39 Cortlandt St., New York City.	As.	Mar. 6, 1925
Lyman, Herbert	18 Tremont St., Room 441, Boston, Mass.	Ac.	Oct. 25, 1895
Lynch, Francis	Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Ac.	Jan. 12, 1922
Lynch, T. J.	Allis-Chalmers Mfg. Co., 50 Congress St., Boston, Mass.	As.	Sept. 30, 1914
MacColl, James R.	Pres. Lorraine Mfg. Co., Pawtucket, R. I.	{ L.	Apr. 24, 1895 Sept. 21, 1905
MacColl, Kenneth D.	J. & P. Coats (R. I.), Inc., P. O. Box 968, Pawtucket, R. I.	Ac.	June 8, 1928
MacColl, William B.	Sec.-Treas. Lorraine Mfg. Co., Pawtucket, R. I.	Ac.	Apr. 13, 1911
MacEnroe, James F.	54 Wilson St., Phillipsburg, N. J.	Ac.	June 1, 1923
McBee, William B.	Pres. & Treas. Blackstone Mutual Fire Insurance Co., P. O. Box 1525, Providence, R. I.	As.	Aug. 1, 1923
McBee, William R. L.	The Gardiner Hall, Jr., Co., S. Willington, Conn.	Ac.	Apr. 24, 1923
McCaughey, Edward J.	51 Arlington St., Pawtucket, R. I.	Ac.	Apr. 26, 1906
McCausland, Ralph E.	Barber-Colman Co., Rockford, Ill.	As.	Apr. 12, 1911
McClellan, John	Asst. Treas. New England Southern Mills, 24 Federal St., Boston, Mass.	Ac.	Nov. 21, 1927
McCormick, Charles A.	Treas. Chicopee Mfg. Corp., Chicopee Falls, Mass.	S.R.	Sept. 12, 1917
McCrudden, James F.	Aberfoyle Manufacturing Company, Bankers Trust Building, Philadelphia, Pa.	Ac.	Apr. 6, 1925

		Elected
McDevitt, Frederick H.	Agt. Soule Mill, New Bedford, Mass.	Ac. Sept. 17, 1910
McDowell, James	146 Forest St., Medford, Mass.	Ac. May 4, 1920
McDuffie, Charles D.	Supt. Everett Mills, Lawrence, Mass.	Ac. Oct. 5, 1923
McDuffie, Frederic C.	Treas. Everett Mills, P. O. Box 2934, Boston, Mass.	Ac. Oct. 25, 1882
McElvie, John G.	Mgr. Mobile Cotton Mills, 320 Broadway, New York City.	Ac. June 14, 1926
McFadden, George H., & Bro.	John Austin Amory, 211 Congress St., Boston, Mass.	Sus. Oct. 29, 1918
McFadden, J. Franklin	McFadden, Sands & Co., 115 Chestnut St., Philadelphia, Pa.	As. Sept. 13, 1906
McFadden, Robert C.	Supt. Whitman Mills, New Bedford, Mass.	Ac. Nov. 1, 1923
McFadden, Sands & Co.	James Lawrence, 141 Milk St., Boston, Mass.	Sus. June 28, 1918
McGowan, Frank R.	The Cotton-Textile Institute, Inc., 320 Broadway, New York City.	Ac. Oct. 5, 1922
McGregor, John A.	Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Apr. 28, 1910
McHenry, Sidney C.	Agent, Otis Company, Ware Mill, Ware, Mass.	Ac. June 14, 1926
McIntyre, Joseph B.	166 President Ave., Providence, R. I.	Ac. Sept. 11, 1912
McKennie, Bernard J.	W. C. Plunkett & Sons Co., 74 Commercial St., Adams, Mass.	Ac. Jan. 17, 1927
McKinley, William, Jr.	W. H. Langley & Co., 77 Worth St., New York City.	As. Apr. 29, 1915
McKitterick, Edward H.	Lockwood, Greene & Co., 24 Federal St., Boston, Mass.	Ac. June 14, 1926
McLean, Earle C.	222 High St., Medford, Mass.	Ac. Jan. 17, 1927
McLoughlin, John E.	Pres. McLoughlin Textile Corp., Utica, N. Y.	Ac. Apr. 25, 1907
McLoughlin, R. P.	Treas. McLoughlin Textile Corp., Utica, N. Y.	Ac. Sept. 13, 1906
McMahon, John	Treas. Fort Dummer Mills, 24 N. Main St., Providence, R. I.	S.R. Nov. 15, 1918
McNab, Allan	New England Southern Mills, 24 Federal St., Boston, Mass.	Ac. Sept. 11, 1912
Macara, Charles W., Bart.	Henry Bannerman & Sons, Ltd., 33 York St., Manchester, Eng.	Ac. Apr. 25, 1907
Macintyre, A. Fergusson	Agt. Appleton Mfg. Co., Anderson, S. C.	Ac. June 15, 1923
Mackintosh, Charles E.	Pres. & Treas. D. Mackintosh & Sons Co., Holyoke, Mass.	S.R. Aug. 1, 1923
Mackintosh, D., & Sons Co.	Charles E. Mackintosh, Pres., & Treas., Holyoke, Mass.	Sus. Aug. 1, 1923
Macy, Andrew W.	Supt. Nashawena Mills, New Bedford, Mass.	Ac. Apr. 6, 1928

	Elected
Macy, Frederick B. Frederick B. Macy & Co., 222 Union St., New Bedford, Mass.	Ac. Apr. 25, 1901
Maddox, Amos G. Supt. Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Oct. 18, 1900
Maguire, John P. Pres. Textile Banking Co., Inc., 50 Union Sq., New York City.	S.R. Oct. 27, 1927
Main, Charles T. Mill Engineer, 201 Devonshire St., Boston, Mass.	Ac. Oct. 28, 1885
Mains, Robert 66 Leonard St., New York City.	Ac. Sept. 16, 1916
Makepeace, Alexander Supt. American Printing Co., Fall River, Mass.	Ac. Oct. 1, 1903
Makepeace, Charles R. Mill Engineer, P. O. Box 1146, Providence, R. I.	Ac. Apr. 30, 1890
Makepeace, Charles S. Chas. R. Makepeace & Co., P. O. Box 1146, Providence, R. I.	Ac. Feb. 8, 1921
Mallory, D. S. Treas. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
Malone, Arnold T. Joseph Noone's Sons Co., 105 Washington St., Boston, Mass.	Ac. Oct. 14, 1926
Manley, John Warren Sayles Finishing Plants, Inc., Saylesville, R. I.	Ac. Apr. 30, 1909
Manson, Ernest T. Edward H. Best & Co., 222 Purchase St., Boston, Mass.	As. Oct. 2, 1913
Manville Jenckes Co. Frederick L. Jenckes, Treas., Pawtucket, R. I.	Sus. Mar. 18, 1918
Marble, C. F. Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.	As. Mar. 6, 1925
Marble, Edwin H. Pres. Curtis & Marble Machine Co., Worcester, Mass.	S.R. Apr. 8, 1919
Marble, George Edwin Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.	As. May 1, 1924
Marsh, Henry Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	As. Apr. 30, 1909
Marston, John P. 247 Atlantic Ave., Boston, Mass.	{ L. Apr. 28, 1904 Apr. 25, 1907
Martin, Edward L. Vice Pres. H. & B. American Machine Co., P. O. Box 678, Pawtucket, R. I.	As. Apr. 25, 1907
Martin, Fay H. Mgr. Woonsocket Machine & Press Co., Woonsocket, R. I.	As. Aug. 10, 1927
Marvin, Charles R. Utica Willowvale Bleaching Co., 320 Broadway, New York City.	Ac. Oct. 2, 1913
Mason, Albert G. Treas. Whitman Mills, New Bedford, Mass.	Ac. Apr. 30, 1909
Mason, Frederic R. 2740 Park Ave., San Diego, California.	Ac. Sept. 21, 1905
Mason, Robert D., Co. Pawtucket, R. I.	Sus. Nov. 1, 1918
Massasoit Mfg. Co. P. S. Palmer, Treas., Fall River, Mass.	Sus. June 20, 1918

		Elected
Mauran, Frank, Jr.	Crompton Co., West Warwick, R. I.	Ac. Jan. 17, 1927
Mayor, John W.	Thomas Mayor & Son, 26 Olney St., Providence, R. I.	As. Sept. 30, 1908
Mead, Chas. E.	Pacific Mills, 24 Thomas St., New York City.	Ac. July 15, 1924
Meehan, George V.	Asst. Treas. Warren Manufacturing Co., Providence, R. I.	Ac. Apr. 16, 1926
Mellor, Leonard H.	Supt. National Rhea Co., Putnam, Conn.	Ac. Aug. 3, 1921
Merchant, John S.	Standard Mill Supply Co., P. O. Box 1534, Providence, R. I.	As. Apr. 30, 1914
Merrill, Gilbert R.	Lowell Textile School, Lowell, Mass.	{ L. Mar. 4, 1927 Apr. 6, 1928
Merrimack Mfg. Co.	Ward Thoron, Treas., 53 State St., Boston, Mass.	Sus. May 10, 1917
Merriman, Chas. H., Jr.	Manville Co., Providence, R. I.	Ac. Apr. 24, 1895
Merriman, James G.	Pres. Oswego Yarn Mills, Inc., Oswego, N. Y.	Ac. Sept. 21, 1905
Metz, Herman A.	Pres. H. A. Metz & Co., 122 Hudson St., New York City.	Ac. Apr. 29, 1915
Midgley, Herbert	Pres. & Gen. Mgr. Howard Bros. Mfg. Co., Worcester, Mass.	S.R. Jan. 22, 1918
Millar, J. R.	Gen. Mgr. California Cotton Mills Co., Oakland, Calif.	Ac. Oct. 29, 1918
Miller, Theodore F.	Treas. Stead & Miller Co., 4th & Cambria Sts., Philadelphia, Pa.	Ac. Oct. 4, 1907
Milliken, Earle L.	Treas. & Gen. Mgr. The Belamose Corp., Rocky Hill, Conn.	S.R. May 13, 1927
Milliken, Joseph K.	Treas. Mount Hope Finishing Co., North Dighton, Mass.	Ac. Sept. 23, 1909
Milliken, Roscoe S.	Con. Agt. Nashua Mfg. Co., Nashua, N. H.	Ac. Apr. 29, 1896
Mills, Charles F.	First National Bank of Boston, 67 Milk St., Boston, Mass.	S.R. Oct. 27, 1927
Minnick, John F.	Slater Mills, Inc., Webster, Mass.	Ac. Sept. 16, 1916
Minot, Hooper & Co.	Thomas W. Slocum, 11 Thomas St., New York City.	Sus. Jan. 1, 1919
Mitchell, John R.	Pres. Mitchell-Bissell Co., Brunswick & Hill Ave., Trenton, N. J.	{ L. Oct. 18, 1900 Apr. 27, 1905
Mitchell, Nathaniel M.	19 Park St., Easthampton, Mass.	{ L. Mar. 2, 1922 Mar. 2, 1922
Mitchell, Robert L.	Treas. Beaver Mills, 102 Worth St., New York City.	Ac. Aug. 3, 1921
Mitchell, William A.	Treas. Houston Textile Mills, Houston, Texas.	Ac. Apr. 25, 1907
Moller, Kenneth	Joseph Bancroft & Sons Co., Wilmington, Del.	Ac. Apr. 29, 1915

		Elected	
Montgomery, George M.	Vice Pres. & Sec. The J. R. Montgomery Co., Windsor Locks, Conn.	Ac.	Sept. 22, 1904
Montgomery, J. R.	Pres. The J. R. Montgomery Co., Windsor Locks, Conn.	Ac.	Sept. 29, 1898
Montgomery, The J. R. Co.	John R. Montgomery, Pres., Windsor Locks, Conn.	Sus.	July 17, 1917
Moody, Chas. P.	Supt. Fisher Mfg. Co., Fisherville, Mass.	Ac.	Jan. 30, 1925
Moore, W. F.	Geo. E. Damon & Co., 7 Pemberton Sq., Boston, Mass.	{ L.	Mar. 2, 1922 Mar. 2, 1922
Morris, Edward N.	The Lawton Mills Corp., 56 Worth St., New York City.	Ac.	May 3, 1918
Morrissey, J. F.	Supt. Interlaken Mills, Harris, R. I.	Ac.	May 1, 1925
Morse Chain Co.	F. L. Morse, Pres., Ithaca, N. Y. John S. White, Boston, Mass.	Sus.	Nov. 1, 1920
Morse, F. L.	Pres. Morse Chain Co., Ithaca, N. Y.	S.R.	Nov. 1, 1920
Morton, Albert H.	95 Harvard St., Lowell, Mass.	Ac.	Oct. 28, 1891
Morton, Charles	32 Garden St., Pawtucket, R. I.	Ac.	May 3, 1918
Morton, William E.	Prof. of Textiles, College of Technology, Manchester, Eng.	Ac.	Oct. 14, 1926
Moss, John W.	Supt. Bourne Mills, Fall River, Mass.	Ac.	Dec. 6, 1926
Mowry, Earl E.	Sec. J. & P. Coats (R. I.), Inc., Pawtucket, R. I.	Ac.	June 8, 1928
Mowry, Harold	Mgr. Sterling Branch, U. S. Finishing Co., Sterling, Conn.	Ac.	Apr. 27, 1905
Mulligan, Robert	Treas. J. W. Starkweather Co., 705 Hospital Trust Bldg., Providence, R. I.	As.	May 13, 1927
Mumford, Charles M.	17 Stearns St., Newton Centre, Mass.	As.	Apr. 26, 1928
Munro, James	c/o J. H. Hanaford, 89 State St., Boston, Mass.	As.	Oct. 5, 1920
Murphy, Wilfred C.	Pres. & Treas. Providence Mill Supply Co., 68 West Exchange St., Providence, R. I.	As.	Mar. 2, 1923
Murray, Joseph D.	Asst. Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac.	Apr. 16, 1926
Murti, E. N.	Tanuku, West Godarari Dist., Pres'y Madras, India.	{ L.	Apr. 25, 1912 Apr. 25, 1912
Nashua Mfg. Co.	Frederic Amory, Treas., 48 Franklin St., Boston, Mass.	Sus.	Aug. 11, 1917
National Aniline & Chemical Co.	W. M. Vermilye, Executive Vice Pres., 40 Rector St., New York City.	Sus.	Jan. 17, 1918

			Elected
National Shawmut Bank of Boston	Sus.	Apr. 26,	1928
John Bolinger, Vice Pres., 40 Water St., Boston, Mass.			
Naumkeag Steam Cotton Co.	Sus.	Aug. 2,	1917
Ernest N. Hood, Treas., Salem, Mass.			
Neild, Eli	Ac.	June 14,	1926
Asst. Supt. Nashawena Mills, New Bedford, Mass.			
Neild, Frank I.	Ac.	May 3,	1918
Pres. Neild Mfg. Corp., New Bedford, Mass.			
Nelson, E. K.	{ L.	May 3,	1918
Pres. Ridley Park National Bank, Ridley Park, Philadelphia, Pa.		June 15,	1918
Nelson, Nils V.	As.	Oct. 14,	1926
N. V. Nelson & Co., 220 Devonshire St., Boston, Mass.			
New Bedford Spinning Co.	Sus.	Apr. 16,	1926
John Catterall, Agent, New Bedford, Mass.			
Newburger, Samuel	As.	May 4,	1920
Samuel Newburger & Co., 60 Beaver St., New York City.			
Newell, A. W.	As.	May 5,	1919
Sec. Hazard Cotton Co., P. O. Box 1394, Providence, R. I.			
Newell, Charles H.	Ac.	Dec. 1,	1921
Asst. Treas. Baltic Mills Co., 510 Turks Head Bldg., Providence, R. I.			
New England Southern Mills	Sus.	Nov. 5,	1917
Allan McNab, Pres., 24 Federal St., Boston, Mass.			
Newmarket Mfg. Co.	Sus.	Dec. 16,	1918
Charles Walcott, Treas., 87 Milk St., Boston, Mass.			
Newport Chemical Wks., Inc.	Sus.	Nov. 10,	1919
Elvin H. Killheffer, Vice Pres., Passaic, N. J.			
Newton, Henry Arthur	Ac.	Apr. 24,	1923
Supt. Pacific Mills, Cocheco Dept., Dover, N. H.			
Newton, Jewett B.	Ac.	Mar. 4,	1927
Androscoggin Mills, 77 Franklin St., Boston, Mass.			
Newton, J. Edward	Ac.	Sept. 16,	1916
Treas. Barnard Mfg. Co., Fall River, Mass.			
New York Mills Corp.	Sus.	Feb. 10,	1920
A. F. Hobbs, Vice Pres., New York Mills, N. Y.			
Nichols, Charles B.	Ac.	Oct. 14,	1925
Asst. Treas. Otis Company, Three Rivers, Mass.			
Nichols, George	Ac.	Sept. 11,	1916
Minot, Hooper & Co., 11 Thomas St., New York City.			
Nichols, George	S.R.	Dec. 5,	1918
Treas. Dwight Mfg. Co., Chicopee, Mass.			
Nichols, Henry G.	Ac.	June 1,	1923
Treas. Otis Co., 24 Milk St., Boston, Mass.			
Nichols, Henry W.	Ac.	Oct. 20,	1917
Principal, Bradford Durfee Textile School, Durfee and Banks Sts., Fall River, Mass.			
Nichols, Howard S. O.	Ac.	Sept. 29,	1911
Treas. Great Falls Mfg. Co., 53 State St., Boston, Mass.			
Nichols, Rodman A.	As.	May 3,	1918
Nichols & Read, 12 Pearl St., Boston, Mass.			
Nichols, William G.	Ac.	Oct. 25,	1893
Vice Pres. & Gen. Mgr. Griffin Mfg. Co., Griffin, Ga.			

			Elected
Nivling, W. A.	Huron Milling Co., 73 Tremont St., Boston, Mass.	As.	May 4, 1920
Noone, Albert W.	Joseph Noone's Sons Co., Peterboro, N. H.	Ac.	Sept. 26, 1901
Norton, William A.	Manville Jenckes Company, Georgiaville, R. I.	Ac.	Oct. 27, 1927
Nyanza Mills	Nathaniel F. Ayer, Treas., 77 Franklin St., Boston, Mass.	Sus.	Jan. 14, 1919
Odenheimer, S.	Pres. Lane Cotton Mills Co., New Orleans, La.	Ac.	Oct. 25, 1893
O'Donnell, J. Joseph	P. T. Jackson Co., 41 Pearl St., Boston, Mass.	As.	Apr. 15, 1927
O'Leary, Arthur L.	Treas. Lambeth Rope Corp., P. O. Box 760, New Bedford, Mass.	As.	Apr. 16, 1926
O'Malley, Charles J.	Pres. O'Malley Advertising & Selling Co., 244 Washington St., Boston, Mass.	{ L.	Apr. 24, 1913 Sept. 7, 1913
O'Meara, James J.	Supt. Fitchburg Yarn Company, Fitchburg, Mass.	Ac.	Nov. 13, 1924
Osborn, James E.	Treas. Merchants Mfg. Co., Fall River, Mass.	Ac.	Apr. 27, 1916
Osborne, G. Gordon	Lowell Textile School, Lowell, Mass.	Jr. Tech.	Oct. 27, 1927
Oswald, John G.	Gen. Mgr. Nyanza Mills, Woonsocket, R. I.	Ac.	June 1, 1923
Otis Company	Henry G. Nichols, Treas., 24 Milk St., Boston, Mass.	Sus.	Nov. 12, 1917
Otte, Henry	Asst. Treas. The Ninigret Co., Pawtucket, R. I.	Ac.	May 3, 1921
Otto, Hans	c/o Heinrich Otto, Heichenbach, a.d. Fils, Wuerttemberg, Germany.	Ac.	Oct. 3, 1924
Owen, Charles D.	Treas. Beacon Mfg. Co., New Bedford, Mass.	S.R.	Nov. 7, 1917
Owen, Harry C.	Vice Pres. Industrial Trust Co., Providence, R. I.	As.	May 1, 1925
Pacific Mills	Edwin Farnham Greene, Treas., 24 Federal St., Boston, Mass.	Sus.	May 18, 1917
Paige, Walter H.	Supt. Maverick Mills, E. Boston, Mass.	Ac.	Nov. 23, 1925
Paine, Sidney B.¹	59 Hancock St., Auburndale, Mass.	Hon.	Apr. 16, 1926
Paine, Sidney L.	8 Cliff Street, Winchester, Mass.	Tech.	Apr. 15, 1927
Paine, Sidney S.	Pres. The Textile Development Co., 80 Federal St., Boston, Mass.	Ac.	Apr. 27, 1916
Palmer, Edward E.	General Electric Co., 84 State St., Boston, Mass.	As.	June 2, 1922
Palmer, P. S.	Treas. Massasoit Mfg. Co., Fall River, Mass.	S.R.	June 20, 1918

¹ Member of the Association since April 24, 1895.

			Elected	
Palmer, Townsend	Sec.-Treas. The I. E. Palmer Co., Middletown, Conn.	Ac.	Apr. 30, 1909	
Parker, J. Earle	Treas. Acadia Mills, 78 Chauncy St., Boston, Mass.	Ac.	Feb. 2, 1923	
Parker, Wilder & Co.	Wm. D. Judson, 78 Leonard St., New York City.	Sus.	Nov. 23, 1918	
Parker, Winthrop	Supt. Cotton Mfg. Amoskeag Mfg. Co., Manchester, N. H.	Ac.	Sept. 30, 1908	
Parks-Cramer Co.	R. S. Parks, Treas., Fitchburg, Mass.	Sus.	May 11, 1917	
Parks, R. S.	Parks-Cramer Co., Fitchburg, Mass.	S.R.	May 11, 1917	
Parsons, Brackett	Asst. Treas. Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.	Ac.	Apr. 24, 1923	
Parsons, Winslow A.	Treas. Richmond Lace Wks., 99 Chauncy St., Boston, Mass.	Ac.	May 3, 1918	
Patterson, John L.	P. O. Box 1481, Richmond, Va.	Ac.	Apr. 13, 1911	
Payne, George F.	16 Fremont St., Putnam, Conn.	Ac.	Apr. 28, 1910	
Payson, C. C.	Clark, Payson & Co., 19 Pearl St., Boston, Mass.	As.	Sept. 30, 1914	
Peabody, W. Rodman	Treas. Suncook Mills, 70 State St., Boston, Mass.	S.R.	Aug. 1, 1923	
Pearson, John A.	The Esmond Mills, 21 East 26th St., New York City.	Ac.	Apr. 30, 1914	
Pease, Chester C.	Agent, Otis Company, Columbian Mills, Greenville, N. H.	Ac.	Feb. 10, 1928	
Pedler, William A.	Agt. Acadia Mills, Lawrence, Mass.	Ac.	Apr. 30, 1914	
Pennock, Gilbert V.	Eustis, Pennock & Co., 118 Old Colony Ave., Wollaston, Mass.	As.	Sept. 11, 1915	
Pepler, Herbert H.	Agt. Paco Mfg. Co., Danielson, Conn.	Ac.	June 5, 1925	
Pepperell Mfg. Co.	Russell H. Leonard, Treas., 160 State St., Boston, Mass.	Sus.	Dec. 17, 1917	
Pepperell, William S.	Treas. Warren Mfg. Co., P. O. Box 1384, Providence, R. I.	Ac.	Mar. 2, 1922	
Perkins, John A.	Agt. Harmony Mills, Cohoes, New York.	Ac.	Apr. 28, 1910	
Perkins, Ralph C.	23 Pleasant St., So. Dartmouth, Mass.	Ac.	Apr. 28, 1910	
Perry, Joseph L.	Supt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 6, 1928	
Peugnet, Ramsay	Sec. U. S. Testing Co., Inc., 468 Fourth Ave., New York City.	Ac.	Apr. 17, 1908	
Phillips, William D.	Supt. Naumkeag Steam Cotton Co., 347 Lafayette St., Salem, Mass.	Ac.	Apr. 30, 1914	
Pierce, Albert R.	Supt. Pierce Mfg. Corp., New Bedford, Mass.	Ac.	Oct. 5, 1899	

		Elected	
Pierce, Andrew G., Jr.	Treas. Pierce Mfg. Corp., P. O. Box 733, New Bedford, Mass.	Ac.	Apr. 23, 1895
Pierce Mfg. Corp.	Andrew G. Pierce, Jr., Treas., New Bedford, Mass.	Sus.	Dec. 3, 1917
Piggott, E. B. G.	Asst. Treas. Waypoysset Mfg. Co., Central Falls, R. I.	S.R.	Jan. 28, 1919
Pilgrim Mills	Arthur C. Homer, Treas., Fall River, Mass.	Sus.	July 17, 1917
Pinckney, Henry R.	Supt. Lincoln Bleachery & Dye Works, Lonsdale, R. I.	Ac.	June 14, 1926
Pingree, A. E.	Supt. Ponemah Mills, Taftville, Conn.	Ac.	Apr. 4, 1924
Pond Lily Co., The	William C. Harmon, Pres., New Haven, Conn.	Sus.	Aug. 21, 1917
Ponemah Mills	J. Arthur Atwood, Treas., 930 Hospital Trust Bldg., Providence, R. I.	Sus.	Mar. 18, 1918
Porteous, John	Pres. The Lawton Mills Corp., Plainfield, Conn.	Ac.	May 3, 1918
Potomska Mills Corp.	Chas. E. Brady, Treas., New Bedford, Mass.	Sus.	Nov. 21, 1918
Potter, Carl H.	Green River Mfg. Co., Tuxedo, N. C.	Ac.	Nov. 5, 1918
Potter, Charles H.	Gen. Supt. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac.	Apr. 25, 1901
Pratt, Edward S.	Vice Pres. Samson Cordage Wks., 88 Broad St., Boston, Mass.	Ac.	Apr. 26, 1917
Prentice, Robert W.	Treas. Butler, Prentice & Co., Inc., 320 Broadway, New York City.	Ac.	Apr. 24, 1913
Prest, George E.	Agt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 24, 1902
Pritchett, Henry Smith, LL.D.	The Carnegie Foundation, 522 Fifth Ave., New York City.	Hon.	Sept. 26, 1901
Prosser, Isaac T.	Mgr. Chicopee Mfg. Corp., Chicopee Falls, Mass.	Ac.	Apr. 25, 1912
Puckett, Henry B.	Asst. Treas. Goodyear Cotton Mills, Inc., Goodyear, Conn.	Ac.	Oct. 14, 1926
Putnam, G. Endicott	Minot, Hooper & Co., 11 Thomas St., New York City.	As.	Aug. 10, 1927
Queen City Cotton Co.	Andrew McLean Young, Treas., Burlington, Vt.	Sus.	Apr. 24, 1918
Quinebaug Co., The	Frank B. Ricketson, Asst. Treas., Danielson, Conn.	Sus.	Sept. 10, 1918
Quinn, Frederick J.	Treas. Atlas Yarn Co., 161 Devonshire St., Boston, Mass.	Ac.	Apr. 26, 1906
Quinn, Patrick H.	Treas. Warwick Lace Wks., Riverpoint, R. I.	Ac.	May 3, 1918
Quinton, W. W.	Agt. Lockwood Co., Waterville, Me.	Ac.	July 15, 1923

		Elected	
Rae, Benjamin G.	Treas. Futurity Thread Co., 80 Bridge St., Newton, Mass.	Ac.	Apr. 29, 1915
Raeburn, Andrew	Sec. New Bedford Cotton Mfrs. Assn., Masonic Bldg., New Bedford, Mass.	Ac.	Apr. 24, 1923
Ramsdell, Theodore E.	Agt. Monument Mills, Housatonic, Mass.	Ac.	Apr. 23, 1903
Rawlinson, M. A.	Agt. Tremont and Suffolk Mills, Lowell, Mass.	Ac.	Apr. 24, 1895
Raymond, Charles P.	Chas. P. Raymond Textile Service, Inc., 294 Washington St., Boston, Mass.	As.	Apr. 29, 1915
Reaber, Karl, Jr.	R. F. D. No. 1, Apponaug, R. I.	Jr. Tech.	Jan. 17, 1927
Reardon, John F.	Agt. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.	Ac.	Sept. 8, 1922
Redman, H. Stewart	Agt. Palmer Mills, Three Rivers, Mass.	Ac.	Apr. 27, 1916
Rennie, T. H.	Vice Pres. Avondale Mill, Pell City, Ala.	Ac.	Oct. 18, 1900
Reoch, Robert A. S.	Gen. Supt. Pacific Mills, Print Works Dept., Lawrence, Mass.	Ac.	Sept. 17, 1910
Reynolds, Arthur W.	Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.	Ac.	June 14, 1926
Reynolds, Frank W.	Vice Pres. Lockwood, Greene & Co., Inc., Boston, Mass.	S.R.	Sept. 27, 1917
Reynolds, Frederic W.	25 Walnut St., Stoughton, Mass.	Ac.	Apr. 26, 1900
Reynolds, Harrison G.	Pepperell Mfg. Company, 160 State St., Boston, Mass.	Ac.	Apr. 6, 1928
Rice, Raymond A.	Treas. Southbridge Printing Co., Southbridge, Mass.	Ac.	Oct. 20, 1917
Richards, Earl L.	Supt. Whitin Bros., Linwood Mill, Linwood, Mass.	Ac.	June 8, 1928
Richardson, Charles O.	Warwick Mills, 201 Devonshire St., Boston, Mass.	Ac.	Apr. 25, 1912
Richardson, E. R.	Treas. H & B American Machine Co., P. O. Box 678, Pawtucket, R. I.	Ac.	Apr. 13, 1911
Richardson, Harry	Supt. Aldrich Bros. Co., Moosup, Conn.	Ac.	Nov. 3, 1921
Richmond, Lawrence	Asst. Treas. Crompton Company, Arctic, R. I.	Ac.	Jan. 30, 1925
Ricketson, Frank B.	Asst. Treas. The Quinebaug Co., Providence, R. I.	Ac.	Apr. 13, 1911
Riley, Charles E.	Pres. H & B American Machine Co., 161 Devonshire St., Boston, Mass.	Ac.	Apr. 25, 1888
Riley, Richard G.	Supt. King Philip Mills, Fall River, Mass.	Ac.	Apr. 25, 1907
Ritter, William H.	Asst. Sec. Chicopee Mfg. Corp., 266 George St., New Brunswick, N. J.	{ L.	May 3, 1918 June 15, 1918

		Elected
Rivitz, Hiram S.	Pres. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
Robbins, Charles H.	Supt. Manomet Mill, No. 4, New Bedford, Mass.	Ac. May 3, 1918
Roberts, George N.	Vice Pres. Bemis Bro. Bag Co., Boston, Mass.	S.R. June 6, 1917
Roberts, Joseph	P. O. Box 309, Fall River, Mass.	Ac. May 3, 1918
Robertson, George W.	Gen. Supt. Riverside & Dan River Cotton Mills, Danville, Va.	Ac. Apr. 26, 1906
Robertson, William H.	Treas. The Robertson Bleachery & Dye Wks., Inc., New Milford, Conn.	Ac. Sept. 16, 1916
Robinson, C. M.	Agt. The Wauregan Co., Wauregan, Conn.	Ac. June 29, 1920
Rockwell, Foster	Smith, Graham & Rockwell, 50 Broadway, New York City.	As. Mar. 6, 1925
Rockwood, George I.	Rockwood Sprinkler Co., 38-56 Harlow St., Worcester, Mass.	{ Ac. Apr. 25, 1901 L. Apr. 25, 1901
Rodman, Lee	Pres. & Treas. Indiana Cotton Mills, Cannelton, Ind.	Ac. Sept. 17, 1910
Rogers, Leon B.	Treas. Rogers Fibre Co., 210 Lincoln St., Boston, Mass.	As. Oct. 20, 1917
Rooney, George W.	Supt. New Hampshire Spinning Mills, 31 Canal St., Penacook, N. H.	Ac. Sept. 30, 1914
Rose, Harry	Pacific Mills, Lawrence, Mass.	Ac. Apr. 6, 1928
Rousmaniere, John E.	Lawrence & Co., 24 Thomas St., New York City.	Ac. Apr. 13, 1911
Rowe, F. E., Jr.	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Apr. 24, 1923
Rowley, Frank G.	260 Central Ave., Pawtucket, R. I.	{ Ac. Oct. 20, 1917 L. Nov. 20, 1917
Royal Mfg. Co.	Ira A. Stone, Vice Pres., Rahway, N. J.	Sus. Nov. 13, 1924
Rudloff, John A.	Whitman Mills, New Bedford, Mass.	Ac. June 5, 1925
Rusden, E. A.	Pres. The Textile-Finishing Machinery Co., 83 Exchange Pl., Providence, R. I.	As. Sept. 21, 1905
Russell, Howard I.	Russell Mfg. Co., Manchester, N. H.	Ac. Apr. 13, 1911
Saco-Lowell Shops	D. F. Edward, Pres., 147 Milk St., Boston, Mass.	Sus. May 18, 1917
Safford, Arthur Truman	66 Broadway, Lowell, Mass.	Ac. Nov. 12, 1919
Sagar, Alfred	Treas. Bolton Worsted Mill, Inc., Methuen, Mass.	Ac. Apr. 24, 1902
Salisbury, Everett E.	Agt. Atlantic Mills, Providence, R. I.	Ac. Sept. 30, 1908

		Elected	
Sanborn, W. K.	Ac.	Apr. 25, 1907	
Supt. American Net & Twine Co., R. W. Lord Mill, West Kennebunk, Me.			
Sanford, Pardon B.	Ac.	Oct. 2, 1902	
Supt. Chalmers Knitting Co., Amsterdam, N. Y.			
Saraiya, Anandji L.	Jr. Tech.	Feb. 10, 1928	
35 Mt. Vernon Street, Lowell, Mass.			
Saulnier, E. T.	Ac.	Aug. 10, 1927	
Gen. Supt. Boston Mfg. Company, Waltham, Mass.			
Schaellibaum, Robert	{ L.	Sept. 22, 1904	
11 W. Vance St., Charlotte, N. C.		Sept. 22, 1904	
Schloss, Frederick H.	Ac.	Jan. 11, 1926	
Pres. & Gen. Mgr. Darlington Textile Co., Pawtucket, R. I.			
Schofield, James	Ac.	May 4, 1920	
89 Broad St., Valley Falls, R. I.			
Scott, Albert L.	Ac.	Sept. 11, 1912	
Pres. Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.			
Scott, David C.	As.	May 4, 1920	
Henry L. Scott & Co., P. O. Box 963, Providence, R. I.			
Scull, Frank R.	As.	Aug. 10, 1927	
Asst. Sales Mgr. Du Pont Rayon Company, 132 Madison Ave., New York City.			
Seabury, Arthur G.	As.	Apr. 16, 1926	
Treas. New Bedford Shuttle Co., New Bedford, Mass.			
Seabury, Dwight	As.	Apr. 25, 1901	
Dwight Seabury Co., 12 East Ave., Pawtucket, R. I.			
Seaton, Thomas J.	Ac.	Nov. 1, 1923	
Vice Pres. & Supt. The Floyd Cranska Co., Moosup, Conn.			
Selley, William H.	Ac.	Sept. 30, 1927	
Supt. The Lawton Mills Corp., Plainfield, Conn.			
Sergeson, Allan M.	As.	June 5, 1925	
R. Sergeson & Co., Philadelphia, Pa.			
Shackelford, Harry W.	Ac.	Apr. 6, 1928	
Supt. Danvers Bleachery, Peabody, Mass.			
Shaw, A. F.	S.R.	June 14, 1926	
Pres. Greenville Finishing Co., Greenville, R. I.			
Shaw, Benjamin C.	Ac.	Oct. 29, 1918	
Asst. Agt. Boston Duck Mills of the Otis Co., Bondsville, Mass.			
Shaw, John F.	Ac.	Apr. 16, 1926	
Supt. Great Falls Mfg. Co., Somersworth, N. H.			
Shawmut Mills	Sus.	Dec. 3, 1918	
Richard B. Chace, Treas., Fall River, Mass.			
Sheldon, Arthur N.	As.	Sept. 13, 1906	
F. P. Sheldon & Son, 1009 Hospital Trust Bldg., Providence, R. I.			
Shockey, U. Morris	Ac.	Aug. 10, 1927	
Vice Pres. B. B. & R. Knight Corp., 88 Worth St., New York City.			
Shove, W. Frank	Ac.	Sept. 22, 1904	
Treas. Pocasset Mfg. Co., Fall River, Mass.			
Simonds, Henry G.	Ac.	Apr. 16, 1926	
Pacific Mills, 24 Federal St., Boston, Mass.			

		Elected
Sinclair, James	Treas. Charlton Mills, Fall River, Mass.	S.R. Jan. 14, 1919
Skinner, John	Treas. Harmony Mills, Cohoes, N. Y.	Ac. Apr. 26, 1906
Slater, H. Nelson	Pres. S. Slater & Sons, Inc., 361 Broadway, New York City.	S.R. June 6, 1924
Slater, S., & Sons, Inc.	H. Nelson Slater, Pres., 361 Broadway, New York City.	Sus. June 6, 1924
Slocum, Charles P.	Corn Products Refining Co., 47 Farnsworth St., Boston, Mass.	S.R. Mar. 2, 1918
Slocum, Thomas W.	Minot, Hooper & Co., 11 Thomas St., New York City.	S.R. Jan. 1, 1919
Smith, Abbott M.	420 Acushnet Ave., New Bedford, Mass.	As. Apr. 24, 1923
Smith, Abbott P.	791 Purchase St., New Bedford, Mass.	As. Sept. 13, 1906
Smith, Albert E.	Agt. New Bedford & Agawam Finishing Co., East Wareham, Mass.	Ac. Dec. 7, 1923
Smith, Albert G.	Agt. Grant Yarn Co., Fitchburg, Mass.	Ac. Apr. 30, 1909
Smith, Archer J.	Pres. The American Mills Co., Waterbury, Conn.	Ac. Apr. 26, 1906
Smith, D. Allen	Mgr. Alexander Sprunt & Son., Inc., 45 Franklin St., Boston, Mass.	S.R. Oct. 18, 1923
Smith, Frederick K.	Kilburn Mill, New Bedford, Mass.	Ac. Apr. 24, 1923
Smith, Henry Kay	500 East 6th St., Jamestown, N. Y.	{ Oct. 4, 1907 L. Jan. 17, 1927
Smith, J. Foster	Agt. Naumkeag Steam Cotton Co., Salem, Mass.	Ac. May 3, 1918
Smith, Robert P.	Smith, Drum & Co., Alleghany Ave. & 5th St., Philadelphia, Pa.	As. Apr. 24, 1923
Smith, Thomas Henry	500 East 6th St., Jamestown, N. Y.	Ac. Apr. 30, 1884
Smith, William	Prin. New Bedford Textile School, New Bedford, Mass.	Ac. May 3, 1921
Smyth, Ellison A.	Hendersonville, N. C.	Ac. Apr. 13, 1911
Sneddon, George	Supt. Grinnell Mfg. Corp., New Bedford, Mass.	Ac. Apr. 25, 1912
Snowden, George L.	Mgr. Cotton Dept. H. Hentz & Company, 60 Beaver St., New York City.	S.R. Apr. 26, 1928
Sommaripa, Alexis	Du Pont Rayon Co., Buffalo, N. Y.	Ac. July 30, 1926
Soucy, Ernest W.	Atlas Plywood Corp., 934 Park Square Bldg., Boston, Mass.	As. Apr. 6, 1923
Soule Mill	Fred H. McDevitt, Agent, New Bedford, Mass.	Sus. Nov. 27, 1918
Soule, Rufus A., Jr.	Treas. Soule Mill, New Bedford, Mass.	Ac. Apr. 26, 1906

		Elected
Southworth, Irving	Ac.	Apr. 13, 1911
Agt. Pacific Mills, Lawrence, Mass.		
Southworth, W. Brewster	S.R.	Apr. 26, 1928
F. B. Keech & Co., 30 State St., Boston, Mass.		
Spence, Henry C.	As.	Apr. 24, 1895
Indian Orchard, Mass.		
Spencer, Antonio	Ac.	May 3, 1918
Pres. U. S. Ring Traveler Co., 17 Exchange St., Providence, R. I.		
Spofford, George E.	Ac.	Apr. 29, 1896
Pres. Langley Mills, Langley, S. C.		
Sprunt, Alexander, & Co. of Boston, Inc.	Sus.	Oct. 18, 1923
D. Allen Smith, Mgr., 45 Franklin St., Boston, Mass.		
Stackhouse, Clarence D.	As.	Nov. 13, 1924
Geo. H. McFadden & Bros., Providence, R. I.		
Stafford Co., The	Sus.	Apr. 1, 1918
George P. Erhard, Pres., Readville, Mass.		
Stanton, J. E., Jr.	S.R.	Nov. 21, 1918
Treas. Hathaway Mfg. Co., New Bedford, Mass.		
Staples, Willard F.	Ac.	Apr. 16, 1926
Wamsutta Mills, New Bedford, Mass.		
Stark Mills	Sus.	June 1, 1923
F. Hartwell Greene, Treas., 24 Federal St., Boston, Mass.		
Stearns, George R.	Ac.	Apr. 30, 1890
Pres. Riverside Mills, Augusta, Ga.		
Stearns, Walter H.	Ac.	May 5, 1922
P. O. Box 475, Pawtucket, R. I.		
Steele, Fred W.	Ac.	Sept. 11, 1912
Treas. York Mfg. Co., 141 Milk St., Boston, Mass.		
Steere, Robert E.	Ac.	July 10, 1925
Supt. Lorraine Mfg. Co., Pawtucket, R. I.		
Steere, Samuel A.	Ac.	Oct. 5, 1920
Mgr. Cotton & Fabric Div., The Goodyear Tire & Rubber Co., Akron, Ohio.		
Steinbach, Winthrop E.	Ac.	Aug. 3, 1921
1 Hopson St., Utica, N. Y.		
Stevens, Dexter	Ac.	Apr. 25, 1907
Mgr. The Esmond Mills, Esmond, R. I.		
Stevens, John A.	Ac.	Apr. 25, 1907
Consulting Engineer, 16 Shattuck St., Lowell, Mass.		
Stevens Mfg. Co.	Sus.	Aug. 20, 1917
Charles B. Chase, Gen. Mgr., Fall River, Mass.		
Stewart, Samuel	Ac.	Apr. 23, 1903
Agt. Bates Mfg. Co., Lewiston, Me.		
Stimpson, Wallace I.	As.	Sept. 21, 1905
Agt. Draper Corp., Hopedale, Mass.		
Stoddard, Wallace E.	Ac.	June 29, 1920
Asst. Treas. Berkshire Cotton Mfg. Co., Adams, Mass.		
Stokes, Edward C.	Hon.	Sept. 21, 1905
P. O. Box 131, Trenton, N. J.		
Stone, Ira A.	S.R.	Nov. 13, 1924
Vice Pres. Royal Mfg. Co., Rahway, N. J.		

		Elected
Stone, Kenneth G.	Dana Warp Mills, Westbrook, Me.	Ac. Apr. 15, 1927
Stone, Malcolm B.	Treas. Ludlow Mfg. Associates, 80 Federal St., Boston, Mass.	Ac. Apr. 25, 1912
Storrow, Charles & Co.	Edward C. Storrow, 602 Exchange Bldg., Boston, Mass.	Sus. Mar. 6, 1925
Storrow, E. C.	Charles Storrow & Co., 602 Exchange Bldg., Boston, Mass.	S.R. Mar. 6, 1925
Strang, James	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Oct. 28, 1897
Straw, Herman F.	Cons. Engineer, Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 28, 1885
Straw, William Parker.	Agt. Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 4, 1907
Strongman, John B.	Treas. City Mfg. Corp., New Bedford, Mass.	Ac. Apr. 26, 1917
Sturtevant, Harold B.	Asst. Supt. Bellman Brook Bleaching Co., Fairview, N. J.	Ac. Oct. 3, 1924
Sullivan, John	Agt. Taber Mill, New Bedford, Mass.	Ac. Apr. 27, 1899
Summersby, George	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac. Sept. 21, 1925
Suncook Mills	W. Rodman Peabody, Treas., 70 State St., Boston, Mass.	Sus. Aug. 1, 1923
Sweet, Chas. A.	Wellington, Sears & Co., 93 Franklin St., Boston, Mass.	Ac. Sept. 21, 1925
Sweetser, John A.	Pres. Bigelow, Hartford Carpet Co., 335 Madison Ave., New York City.	Ac. June 5, 1925
Swift, Arthur Clinton	Gen. Mgr. Sharp Manufacturing Co., New Bedford, Mass.	Ac. Apr. 6, 1923
Swift, E. Kent	Treas. Whittin Machine Works, Whitinsville, Mass.	S.R. Nov. 1, 1918
Swope, Gerard	Pres. General Electric Co., 120 Broadway, New York City.	S.R. May 24, 1917
Taber, Frederick	Pres. Taber Mill, New Bedford, Mass.	Ac. Apr. 26, 1906
Taber Mill	John Sullivan, Agent, New Bedford, Mass.	Sus. May 17, 1917
Tabor, Charles A.	Agent, Thorndike Co., West Warren, Mass.	Ac. Apr. 27, 1905
Taft, Royal C.	Treas. Coventry Co., P. O. Box 1364, Providence, R. I.	Ac. May 13, 1927
Takatsuji, Narazo	Karasumaru-dori Imadegawaagaru, Kyoto, Japan.	Ac. Apr. 17, 1908
Tarr, Henry M.	Traffic Mgr. Textile Traffic Assn., 13 Market Sq., Providence, R. I.	Ac. June 2, 1922
Taylor, Aldrich	Pacific Mills, 24 Thomas St., New York City.	Ac. Apr. 26, 1928

		Elected
Taylor, Daniel L.	Traffic Mgr. Pacific Mills, 24 Federal St., Boston, Mass.	Ac. June 2, 1922
Taylor, Havila B.	193 Bailey St., Lawrence, Mass.	Ac. Oct. 29, 1918
Taylor, James W.	Agt. Fuld & Hatch Knitting Co., P. O. Box 83, Cohoes, N. Y.	Ac. Oct. 26, 1892
Taylor, Samuel	Supt. Bristol Mfg. Co., New Bedford, Mass.	Ac. Oct. 1, 1903
Temple, Chas. S.	Gore-Temple Company, 178 Federal St., Boston, Mass.	S.R. Oct. 27, 1927
Tenney, Ashton M.	American Bemberg Corp., 180 Madison Ave., New York City.	Ac. Dec. 21, 1928
Tenney, George A.	Treas. Monadnock Mills, Clarenmont, N. H.	Ac. Sept. 29, 1911
Textile Banking Co., Inc.	John P. Maguire, Pres., 50 Union Sq., New York City.	Sus. Oct. 27, 1927
Textile Development Co., The	Sidney S. Paine, Pres., 80 Federal St., Boston, Mass.	Sus. May 1, 1925
Thatcher, Albert G.	Chairman of Board, Standard-Coosa-Thatcher Co., Philadelphia, Pa.	Ac. Apr. 27, 1916
Thayer, Gay D.	82 Elm St., Worcester, Mass.	As. Apr. 25, 1907
Thayer, Nathaniel N.	Barry, Thayer & Co., 30 Kilby St., Boston, Mass.	As. Apr. 13, 1911
Thoma, M. Frederick	Fitchburg Yarn Co., 520 Main St., Fitchburg, Mass.	Ac. Jan. 17, 1927
Thomas, Norman T.	Agent, Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Oct. 16, 1919
Thompson, Albert W.	Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.	Ac. Apr. 30, 1909
Thompson, Gilbert T.	Treas. Berkshire Cotton Mfg. Co., Adams, Mass.	Ac. Apr. 30, 1914
Thompson, Henry B.	Pres. U. S. Finishing Co., 40 Worth St., New York City.	Ac. May 3, 1918
Thompson, James O., Jr.	Agt. New Bedford Cotton Mills Corp., New Bedford, Mass.	Ac. Oct. 18, 1900
Thompson, Philip E.	44 Maple St., New Bedford, Mass.	Ac. Feb. 5, 1926
Thomson, Charles R.	Asst. Treas. Solway Dyeing & Textile Co., 222 Central Ave., Pawtucket, R. I.	Ac. Apr. 27, 1905
Thomson, James	Asst. Treas. Dwight Mfg. Co., 53 State St., Boston, Mass.	Ac. Apr. 25, 1907
Thoron, Ward	Treas. Merrimack Mfg. Co., P. O. Box 5209, Boston, Mass.	Ac. May 4, 1920
Tift, Emerson B.	Asst. Supt. Harmony Mills, Cohoes, N. Y.	Ac. Mar. 7, 1924
Tilton, Newell W.	Harding, Tilton & Co., 50 Union Sq., New York City.	S.R. Dec. 17, 1917

		Elected
Tobin, John E.	Supt. Butler Mill, New Bedford, Mass.	Ac. June 4, 1919
Todd, W. O.	Pres. & Treas. Pocasset Worsted Co., Inc., Thornton, R. I.	Ac. Oct. 18, 1900
Totokett Mfg. Co.	Calvin H. Frisbie, Pres., Norwich, Conn.	Sus. July 20, 1918
Tourtellot, Carl T.	Agt. Renfrew Mfg. Co., Adams, Mass.	Ac. Oct. 29, 1918
Towne, George W.	62 Salem St., North Andover, Mass.	Ac. Oct. 26, 1892
Troy Cotton & Woolen Manufactory	J. Edward Newton, Treas., Fall River, Mass.	Sus. Sept. 10, 1918
Tucker, Philip M.	Pres. Philip M. Tucker Co., 201 Devonshire St., Boston, Mass.	Ac. Apr. 25, 1912
Tuley, Philip S.	Pres. Louisville Cotton Mills Co., 1318 McHenry St., Louisville, Ky.	Ac. Oct. 18, 1900
Tunstall, Harry	12 Maple Ave., Fairhaven, Mass.	Ac. Sept. 21, 1905
Turner, Chas. A.	Pres. Chester Lace Mills, Chester, Pa.	Ac. Mar. 7, 1924
Twiss, William D.	Agt. Everett Mills, Lawrence, Mass.	Ac. Apr. 29, 1896
Underdown, Walter H.	Treas. New Bedford Cotton Mills Corp., New Bedford, Mass.	Ac. Sept. 23, 1909
Underwood, Chas. S.	Hunter Mfg. & Comm. Co., 58 Worth St., New York City.	Ac. Jan. 11, 1924
United Piece Dye Wks.	Albert Blum, Treas., Lodi, N. J.	Sus. Feb. 12, 1918
Vaughan, Wanton	Bragdon, Lord & Nagle Co., Mill Property Dept., 334 Fourth Ave., New York City.	Ac. Feb. 5, 1926
Vermilye, Wm. M.	930 Madison Ave., Plainfield, N. J.	Ac. Oct. 5, 1923
Vickery, Robert G.	Cabot Mfg. Co., 77 Franklin St., Boston, Mass.	Ac. June 1, 1923
Viscose Co., The	C. C. Bassett, Jr., 171 Madison Ave., New York City.	Sus. Jan. 17, 1927
Wadleigh, Jude C.	Agt. Merrimaek Mfg. Co., Lowell, Mass.	Ac. Oct. 26, 1892
Wagg, Frederic E.	Agt. Hill Mfg. Co., 487 Main St., Lewiston, Me.	{ Mar. 2, 1922 { L. Mar. 2, 1922
Walcott, Chas.	Treas. Newmarket Mfg. Co., 87 Milk St., Boston, Mass.	S.R. Dec. 16, 1918
Walen, E. Dean	Asst. Agt. Pacific Mills, Lawrence, Mass.	Ac. May 3, 1921
Walker, Edward P.	E. P. Walker & Co., 60 Beaver St., New York City.	As. Apr. 29, 1915

		Elected	
Walker, Frank A.	As.	Apr. 16, 1926	
Leary & Walker, New Bedford, Mass.			
Walker, Thomas H.	Ac.	Apr. 24, 1923	
Asst. Treas. Lorraine Mfg. Co., Pawtucket, R. I.			
Wallace, Robert S.	Ac.	Apr. 25, 1912	
Treas. Fitchburg Yarn Co., Fitchburg, Mass.			
Walmsley, Herbert	Ac.	Sept. 30, 1908	
Sec.-Treas. New England Yarn Spinners Assn., 731 Grosvenor Bldg., Providence, R. I.			
Walsh, Frederick T.	Ac.	Apr. 28, 1897	
12 Valentine St., West Newton, Mass.			
Walsh, James J.	As.	June 1, 1923	
S. D. Bush & Co., 153 Milk St., Boston, Mass.			
Wampanoag Mills	Sus.	Dec. 7, 1917	
Albion C. Cook, Treas., Fall River, Mass.			
Wamsutta Mills	Sus.	Sept. 10, 1917	
C. F. Broughton, Treas., New Bedford, Mass.			
Ward, Benjamin I.	Ac.	Sept. 30, 1908	
Pres. Bellman Brook Bleachery Co., Fairview, N. J.			
Warren, Edward A.	As.	Oct. 30, 1917	
Hotel Kempton, 237 Berkeley St., Boston, Mass.			
Warren Mfg. Co.	Sus.	July 20, 1918	
Wm. S. Pepperell, Treas., Warren, R. I.			
Warwick Mills	Sus.	Jan. 29, 1919	
Charles O. Richardson, Pres., 201 Devonshire St., Boston, Mass.			
Washburn, Frederick C.	As.	Dec. 6, 1926	
Washburn, 226 North Water St., New Bedford, Mass.			
Waterman, Frank E.	Ac.	Jan. 30, 1925	
Asst. Treas. Butler Mill, New Bedford, Mass.			
Watson, Clifton E.	As.	Feb. 2, 1923	
Mgr. The J. H. Williams Co., Millbury, Mass.			
Wattles, Fred E.	Ac.	Oct. 5, 1899	
Asst. Supt. New Hampshire Spinning Mills, Penacook, N. H.			
Watts, Ridley	Ac.	Apr. 25, 1907	
Ridley Watts & Co., 44 Leonard St., New York City.			
Watts, Ridley & Co.	Sus.	Nov. 1, 1918	
Ridley Watts, 44 Leonard St., New York City.			
Wauregan Co., The	Sus.	Apr. 1, 1918	
W. Irving Bullard, Wauregan, Conn.			
Waypoysset Mfg. Co.	Sus.	Jan. 28, 1919	
E. B. G. Piggott, Asst. Treas., Central Falls, R. I.			
Webster, Joseph W.	Ac.	Apr. 28, 1910	
Treas. Grinnell Mfg. Corp., New Bedford, Mass.			
Webster, Robert C.	Ac.	June 20, 1927	
Vice Pres. W. & J. Knox Net & Twine Co., Johnson and Barney Sts., Baltimore, Md.			
Weld, J. Linzee	Ac.	Apr. 6, 1928	
Asst. Treas. Suncook Mills, 70 State St., Boston, Mass.			

Wellington, Sears & Co.		Elected
Harry L. Bailey, 93 Franklin St., Boston, Mass.	Sus.	Nov. 13, 1924
Wentworth, Philip C.		As.
Treas., National Ring Traveler Co., 257 West Exchange St., Providence, R. I.	May 3, 1921	
West, Alexander S.		
U. S. Gutta Percha Paint Co., 12 Dudley St., Providence, R. I.	{ L.	Apr. 17, 1908 Apr. 17, 1915
West, William R.		
1886 Purchase St., New Bedford, Mass.	Ac.	Sept. 22, 1896
Whidden, William B.		As.
Sales Repres. Celanese Corp. of America, 15 E. 26th St., New York City.	Nov. 23, 1925	
Whipple, Walter		
Agt. Nashua Mfg. Co., Nashua, N. H.	Ac.	Sept. 13, 1906
Whitaker, James D.		
Agt. Lola Cotton Mills, 683 Atlantic Ave., Boston, Mass.	Ac.	May 1, 1924
Whitaker, James L.		
William Whitaker & Sons, Olney, Philadelphia, Pa.	Ac.	Sept. 21, 1905
Whitaker, Wharton		
V. P. & Gen. Mgr. William H. Haskell Mfg. Co., Pawtucket, R. I.	{ L.	Mar. 15, 1919 Mar. 9, 1920
White, John S.		
Morse Chain Co., 141 Milk St., Boston, Mass.	S.R.	Nov. 1, 1920
White, Nelson D.		
Gen. Mgr. N. D. White & Sons, Winchendon, Mass.	Ac.	Sept. 11, 1912
Whitehead, H. R.		
Agt. Pepperell Mfg. Co., Biddeford, Me.	Ac.	July 10, 1925
Whitehead, James H.		
Treas. Boston Mfg. Co., 48 Franklin St., Boston, Mass.	S.R.	May 31, 1917
Whitin, Henry T.		
Pres. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Apr. 25, 1877
Whitin Machine Wks.		
E. Kent Swift, Treas., Whitinsville, Mass.	Sus.	Nov. 1, 1918
Whitin, Paul		
Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Oct. 1, 1903
Whitin, Paul, Mfg. Co.		
Henry T. Whitin, Pres., Northbridge, Mass.	Sus.	Jan. 22, 1918
Whitin, Richard C.		
Asst. Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Jan. 11, 1926
Whiting, George H.		
B. H. Dickson & Co., 141 Milk St., Boston, Mass.	As.	June 14, 1926
Whitman, Clarence, & Son, Inc.		
C. Morton Whitman, Vice Pres., 21 East 26th St., New York City.	Sus.	Nov. 1, 1918
Whitman, C. Morton		
Vice Pres. Clarence Whitman & Son, Inc., 21 East 26th St., New York City.	S.R.	Nov. 1, 1918
Whitman, Harold C.		
Treas. The Esmond Mills, 21 East 26th St., New York City.	Ac.	Apr. 25, 1907
Whitman, Hendricks H.		
Pres. Monomac Spinning Co., 78 Chauncy St., Boston, Mass.	Ac.	Apr. 29, 1915

		Elected
Whitman, Malcolm D.	As.	Apr. 25, 1912
William Whitman Co., Inc., 25 Madison Ave., New York City.		
Whitman Mills	Sus.	Feb. 8, 1918
Albert G. Mason, Treas., New Bedford, Mass.		
Whitman, William	Ac.	Apr. 25, 1901
Nonquitt Spinning Co., P. O. Box 100, Essex Station, Boston, Mass.		
Whittaker, John G.	Ac.	Apr. 17, 1908
Mgr. Lincoln Bleachery & Dye Works, Lonsdale, R. I.		
Whittenton Mfg. Co.	Sus.	Jan. 30, 1925
John S. Farlow, Asst. Treas., 50 State St., Boston, Mass.		
Whittier, W. R. B.	Ac.	Oct. 18, 1900
Treas. Whittier Mills, Chattahoochee, Ga.		
Wiggin, Frederic S.	Ac.	Oct. 29, 1918
20 Dunnell St., Pawtucket, R. I.		
Wilkinson, William T.	Ac.	Apr. 16, 1926
Gen. Supt. Warwick Mills, W. Warwick, R. I.		
Williams, Walter S.	Ac.	Apr. 30, 1909
Mount Hope Finishing Co., North Dighton, Mass.		
Wilson, James A.	As.	June 5, 1925
Pres. & Treas. J. A. Gowdey Reed & Harness Co., P. O. Box 397, Providence, R. I.		
Winchester, William E.	Ac.	Apr. 24, 1902
Vice Pres. Deering, Milliken & Co., Inc., 79 Leonard St., New York City.		
Windle, J. H.	As.	Oct. 5, 1920
Selling Agt. Fales & Jenks Machine Co., Pawtucket, R. I.		
Winsor, Robert	Ac.	Apr. 28, 1910
Kidder, Peabody & Co., 115 Devonshire St., Boston, Mass.		
Winsper, Samuel F.	Ac.	May 3, 1918
Supt. City Manufacturing Corp., New Bedford, Mass.		
Winterbottom, John W.	Ac.	Nov. 23, 1925
Supt. Nashua Mfg. Co., Nashua, N. H.		
Witherbee, Rex G.	Ac.	Apr. 26, 1906
Utica Steam & Mohawk Valley Cotton Mills, 801 State St., Utica, N. Y.		
Wixon, Walter James	As.	Nov. 10, 1922
Treas. Sterling Ring Traveler Co., 101 Lindsey St., Fall River, Mass.		
Wolff, Charles, 3rd	Ac.	June 14, 1926
Gen. Supt. Canadian-Connecticut Cotton Mills, Ltd., Sherbrooke, P. Q., Canada.		
Wonalcant Co.	Sus.	Mar. 15, 1918
James R. Everett, Vice Pres. & Gen. Mgr., 125 Summer St., Boston, Mass.		
Woodman, Cyrus	Ac.	Apr. 6, 1922
Newmarket Mfg. Co., Newmarket, N. H.		
Woolley, Frank F.	Ac.	Apr. 27, 1905
Agt. Coventry Co., Anthony, R. I.		
Worsnop, William	Ac.	Nov. 1, 1923
Agt. Cabot Mfg. Co., Brunswick, Me.		
Wylde, Harry	Ac.	Apr. 13, 1911
979 Essex St., Lawrence, Mass.		

		Elected
York Manufacturing Co.	Sus.	Aug. 1, 1923
Frederic C. McDuffie, Treas., 141 Milk St., Boston, Mass.		
Young, Alan V.	Ac.	Sept. 11, 1915
Mgr. Hamilton Cotton Co., Hamilton, Ontario, Canada.		
Young, A. McLean	S.R.	Apr. 24, 1918
Treas. Queen City Cotton Co., Burlington, Vt.		
Young, Charles William	Ac.	Oct. 5, 1923
Supt. Goodyear Cotton Mills, Inc., Goodyear, Conn.		
Zuill, Robert W.	S.R.	July 20, 1918
Treas. Cornell Mills, Fall River, Mass.		
Zylstra, William C.	Ac.	June 14, 1926
Supt. Booth Mfg. Co., New Bedford, Mass.		

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BY CLASSES

Active members	628
Associate members	191
Sustaining members	157
Life members	35
Honorary members	4
Technical members	8
Junior Technical members	7
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